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NOTES:

- CONTRACTOR SHALL NOTIFY AUSTIN ENERGY 24 HOURS PRIOR TO STARTING CONSTRUCTION OR CLEARING OPERATIONS.
- CONTRACTOR SHALL CALL "ONE CALL" AT 1-800-344-8377 FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO ANY WORK IN CITY EASEMENTS OR STREET RIGHT OF WAYS.
- THIS PROJECT IS LOCATED WITHIN THE DECKER WATERSHED (CLASSIFIED AS SUBURBAN) AND SHALL BE DEVELOPED, CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 25 OF THE CODE OF THE CITY OF AUSTIN.
- ___A/NO_X___ PORTION OF THIS SITE IS LOCATED WITHIN PARKLAND OR LAND USED FOR PARK PURPOSES. (IF SUCH LAND IS INCLUDED, DOCUMENTATION OF PARKS AND RECREATION DEPT APPROVAL IS REQUIRED AT THE TIME OF SUBMITTAL FOR GENERAL PERMIT PROGRAM APPROVAL.)
- ___X_A/NO___ PORTION OF THIS SITE IS LOCATED WITHIN THE 100-YEAR FLOODPLAIN, PER CITY OF AUSTIN AND FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAPS.
- THIS PROJECT ___IS/IS NOT_X___ WITHIN THE EDWARDS AQUIFER RECHARGE ZONE AS DEFINED BY THE CITY OF AUSTIN. THIS PROJECT ___IS/IS NOT_X___ WITHIN THE EDWARDS AQUIFER RECHARGE ZONE AS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ).
- THERE ___ARE/ARE NO_X___ CRITICAL ENVIRONMENTAL FEATURES WITHIN 150' OF ANY PORTION OF THIS PROJECT. A FIELD INVESTIGATION ___HAS BEEN PERFORMED AS A PART OF THIS PROJECT. A FIELD INVESTIGATION ___X_HAS NOT BEEN PERFORMED AS A PART OF THIS PROJECT AND IS NOT REQUIRED.
- THE STANDARD SHEETS INCLUDED IN THIS PLAN SET WERE PROVIDED BY THE GENERAL PERMIT PROGRAM OFFICE FOR USE ON GENERAL PERMIT PROJECTS ONLY. IF ANY MODIFICATIONS TO THE SHEETS WERE MADE, THEY ARE CLEARLY INDICATED ON THE SHEET ITSELF AND IN THE COVER SHEET INDEX.
- ADDITIONAL TRENCH E/S CONTROL: TRIANGULAR SEDIMENT FILTER DIKE WILL BE INSTALLED ACROSS FULL WIDTH OF TRAFFIC CLOSURE AND DOWNSTREAM OF CONSTRUCTION AREA, PERPENDICULAR TO CURB. FILTER DIKE TO FOLLOW ACTIVE CONSTRUCTION. REMOVING AND RE-SETTING FILTER DIKE IS CONSIDERED SUBSIDIARY TO BARRICADES AND TRAFFIC HANDLING.
- PROJECT SCHEDULE MUST BE APPROVED BY THE GENERAL PERMIT PROGRAM (GPP) COORDINATOR. INSTALLATION AND REMOVAL OF TEMPORARY AND PERMANENT EROSION/SEDIMENTATION CONTROLS MUST BE REFLECTED IN THE SCHEDULE, BY STATION NUMBER. GPP INSPECTOR MUST BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF TRANSITION BETWEEN PHASES.
- APPROPRIATE EASEMENTS/APPROVALS MUST BE SECURED AND DOCUMENTED FOR PROJECT AREAS LOCATED OUTSIDE OF RIGHT OF WAYS. NO WORK SHALL BE PERFORMED WITHIN THESE AREAS UNTIL ASSOCIATED RIGHT OF ENTRY HAS BEEN SECURED. ADDITIONALLY, PROJECT PORTIONS IMPACTED BY LACK OF RECORDED DOCUMENT NUMBERS WILL NOT BE CONSIDERED FOR FORMAL GPP REVIEW.
- CONTRACTOR SHALL STAKE ALL PROPOSED SERVICE CONNECTIONS LOCATED WITHIN THE CRITICAL ROOT ZONE OF TREES 8" IN CALIPER AND LARGER AT LEAST 21 CALENDAR DAYS PRIOR TO CONSTRUCTION OF SUCH SERVICES. STAKING SHALL CONSIST OF A LATH WITH NAIL AND PAINT MARKINGS. IN CASES WHERE A STAKE CANNOT BE PLACED WITHOUT DAMAGING PROPERTY, CONTRACTOR MAY USE PAINT ONLY. ONCE STAKING IS COMPLETED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE CITY OF AUSTIN'S CONSTRUCTION INSPECTOR WITHIN TWENTY-FOUR HOURS. THE CITY OF AUSTIN'S CONSTRUCTION INSPECTOR WILL THEN COORDINATE A FIELD REVIEW OF THE SERVICE LOCATIONS WITH THE GENERAL PERMIT PROGRAM COORDINATOR AND PROPERTY OWNERS. SERVICE LINE LOCATIONS MAY BE ADJUSTED BASED ON THE REVIEW AND WILL BE RESTAKED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ALL SERVICE LINE STAKING SHALL BE MAINTAINED UNTIL THE SERVICE IS INSTALLED.

GENERAL PERMIT PROGRAM CORRECTIONS RECORD						
No.	DESCRIPTION	BY	CORRECT (C) ADD (A) VOID (V) SHEET Nos.	TOTAL No. SHEETS IN CORRECTION PLAN SET	CITY OF AUSTIN APPROVAL/DATE	DATE IMAGED

AUSTIN ENERGY
DECKER DAM
SLOUGH REPAIRS



NOTES:
GENERAL PERMIT PROGRAM APPROVAL DOES NOT CONSTITUTE UTILITY ALIGNMENT/ASSIGNMENT APPROVAL.

RELEASE OF THIS APPLICATION DOES NOT CONSTITUTE A VERIFICATION OF ALL DATA, INFORMATION AND CALCULATIONS SUPPLIED BY THE APPLICANT. THE ENGINEER OF RECORD IS SOLELY RESPONSIBLE FOR THE COMPLETENESS, ACCURACY AND ADEQUACY OF HIS/HER SUBMITTAL, WHETHER OR NOT THE APPLICATION IS REVIEWED FOR CODE COMPLIANCE BY CITY ENGINEERS.


PROJECT INFORMATION:

STREET ADDRESS:
WALTER E. LONG METROPOLITAN PARK
6620 BLUE BLUFF RD.
AUSTIN, TEXAS 78724

OWNER:
AUSTIN ENERGY

CONTACT:
RICHARD DUANE, PE, PMP
PROJECT MANAGER
721 BARTON SPRINGS RD.
AUSTIN, TX 78704
(512) 494-9400

SUBMITTAL PREPARED BY:




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Austin, Texas 78759
Phone - (512) 617-3100
Fax - (512) 617-3101
Web - www.freese.com

Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144
FNI PROJECT NUMBER AU419379

CONTACT:
DUSTIN G. MORTENSEN, PE
PHONE: (512)-617-3100
DGM @ FREESE.COM

SUBMITTED FOR APPROVAL BY:



ENGINEER OF RECORD

DATE

APPROVED BY GENERAL PERMIT HOLDER:

FOR GENERAL PERMIT HOLDER

DATE

ANNUAL GENERAL PERMIT NUMBER

APPROVALS:

FOR TRAVIS COUNTY

DATE

TRAVIS COUNTY PERMIT NUMBER

TXDOT PERMIT NUMBER

DATE

FOR AUSTIN WATER UTILITY

DATE

CITY OF AUSTIN PARKS AND RECREATION DEPARTMENT MOU NUMBER

DATE

APPROVAL FOR SITE DEVELOPMENT PERMIT:

GENERAL PERMIT PROGRAM COORDINATOR

PLANNING AND DEVELOPMENT REVIEW DEPARTMENT

DATE

DEVELOPMENT PERMIT NUMBER

SUBMITTAL DATE:

GENERAL PERMIT PROGRAM

CITY OF AUSTIN – STANDARD NOTES
EROSION AND SEDIMENTATION CONTROL
(MODIFIED FOR USE ON GENERAL PERMIT PROJECTS)

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR EXCAVATION).
2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
3. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
4. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER, PERMIT APPLICANT, AND GENERAL PERMIT PROGRAM REPRESENTATIVE AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND THE TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE GENERAL PERMIT PROGRAM OFFICE AT 512/974-6330, AT LEAST 3 DAYS PRIOR TO THE MEETING DATE.
5. ANY SIGNIFICANT VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS MUST BE APPROVED BY THE REVIEWING ENGINEER AND THE GENERAL PERMIT PROGRAM REPRESENTATIVE.
6. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT DAILY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES. SILT ACCUMULATION AT INLET DEVICES SHOULD BE REMOVED WHEN THE DEPTH REACHES TWO (2) INCHES.
7. PRIOR TO FINAL ACCEPTANCE BY THE CITY, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.
8. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS ONE SQUARE FOOT OR LARGER IN TOTAL AREA, BLOWS AIR FROM WITHIN THE SUBSTRATE, AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME, IT IS THE RESPONSIBILITY OF THE PROJECT MANAGER TO IMMEDIATELY CONTACT THE GENERAL PERMIT PROGRAM REPRESENTATIVE FOR FURTHER INVESTIGATION.
9. FIELD REVISIONS TO THE EROSION/SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES. ANY REVISIONS TO THE PERMITTED PLAN MUST BE APPROVED BY THE GENERAL PERMIT PROGRAM OFFICE OF THE PLANNING AND DEVELOPMENT REVIEW DEPARTMENT.
10. PERMANENT EROSION/SEDIMENTATION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WHERE THE CRITERIA MANUAL AND CONTRACT DOCUMENTS DIFFER THE MOST ENVIRONMENTALLY BENEFICIAL MATERIALS/METHOD SHALL BE REQUIRED UNLESS OTHERWISE APPROVED BY THE GENERAL PERMIT PROGRAM REPRESENTATIVE.

11. DEVELOPER INFORMATION:

PROJECT MANAGER: RICHARD DUANE, PE, PMP

OWNER: AUSTIN ENERGY

ADDRESS: 721 BARTON SPRINGS RD. AUSTIN TEXAS 78704

PHONE: 512-494-9400

EMAIL: RICHARD.DUANE@AUSTINENERGY.COM

OWNER'S REPRESENTATIVE RESPONSIBLE FOR PLAN ALTERATIONS:

COMPANY: FREESE AND NICHOLS, INC.

CONTACT: DUSTIN MORTENSEN, P.E.

ADDRESS: 10431 MORADO CIRCLE STE. 300

PHONE: (512) 617-3100

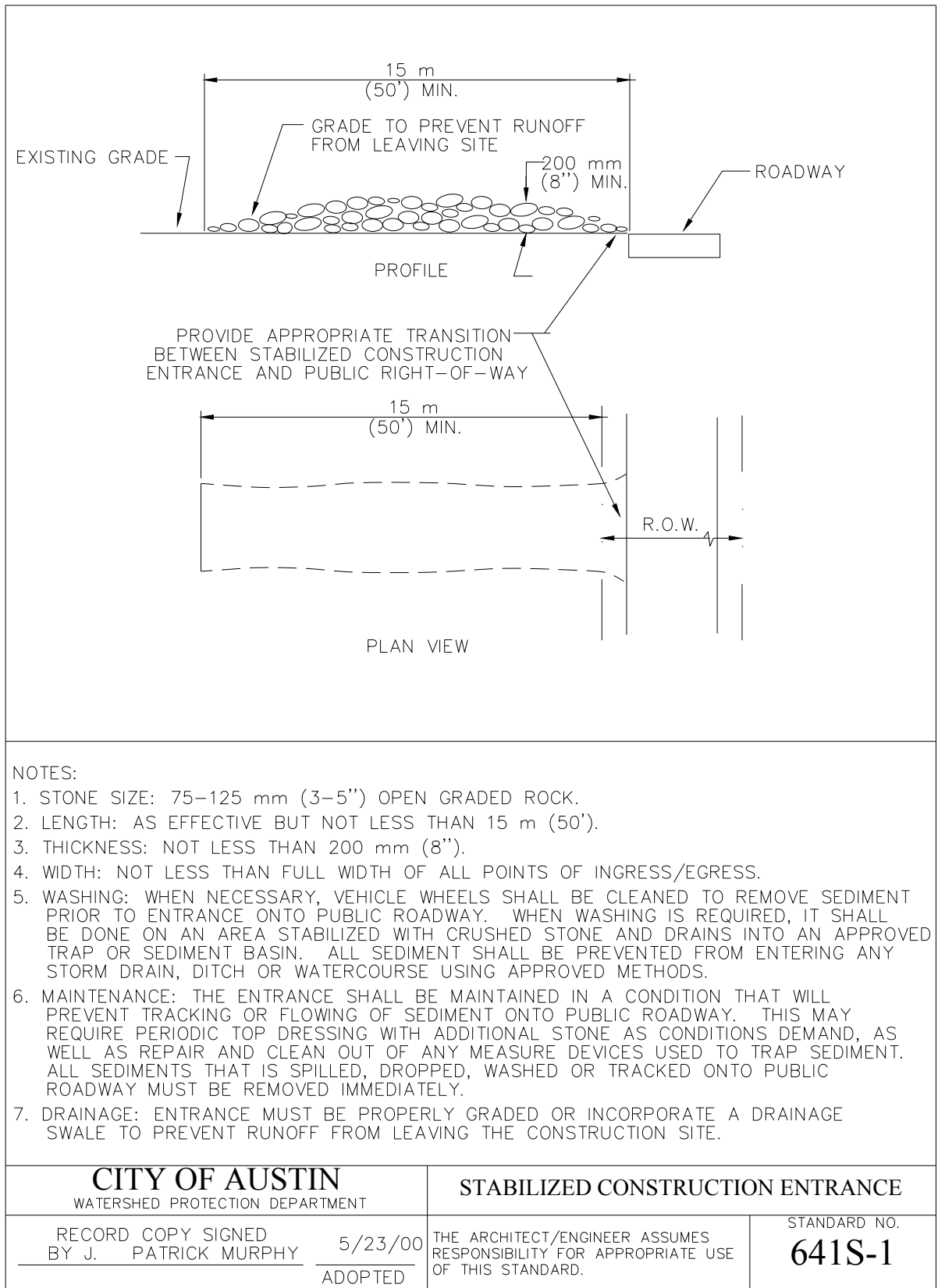
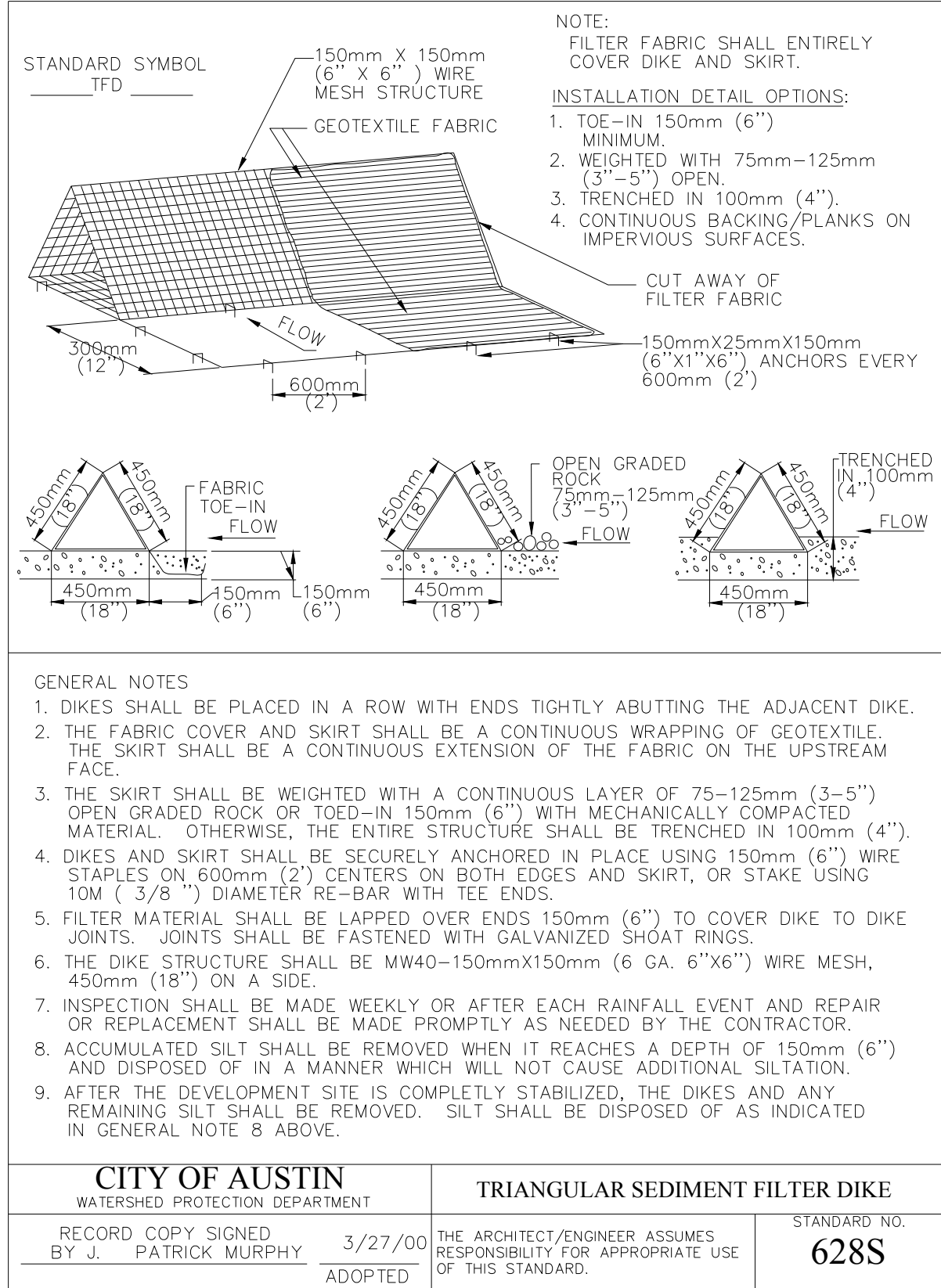
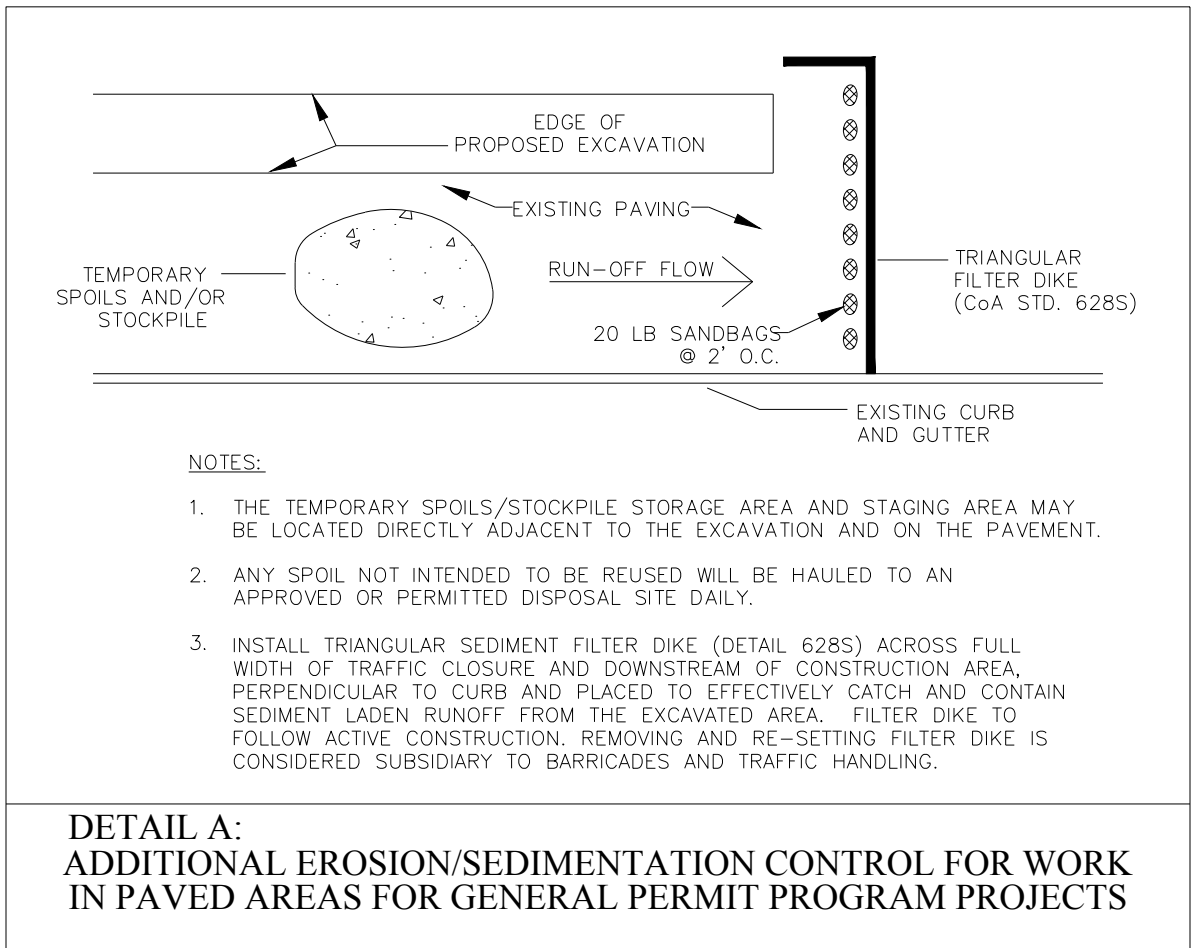
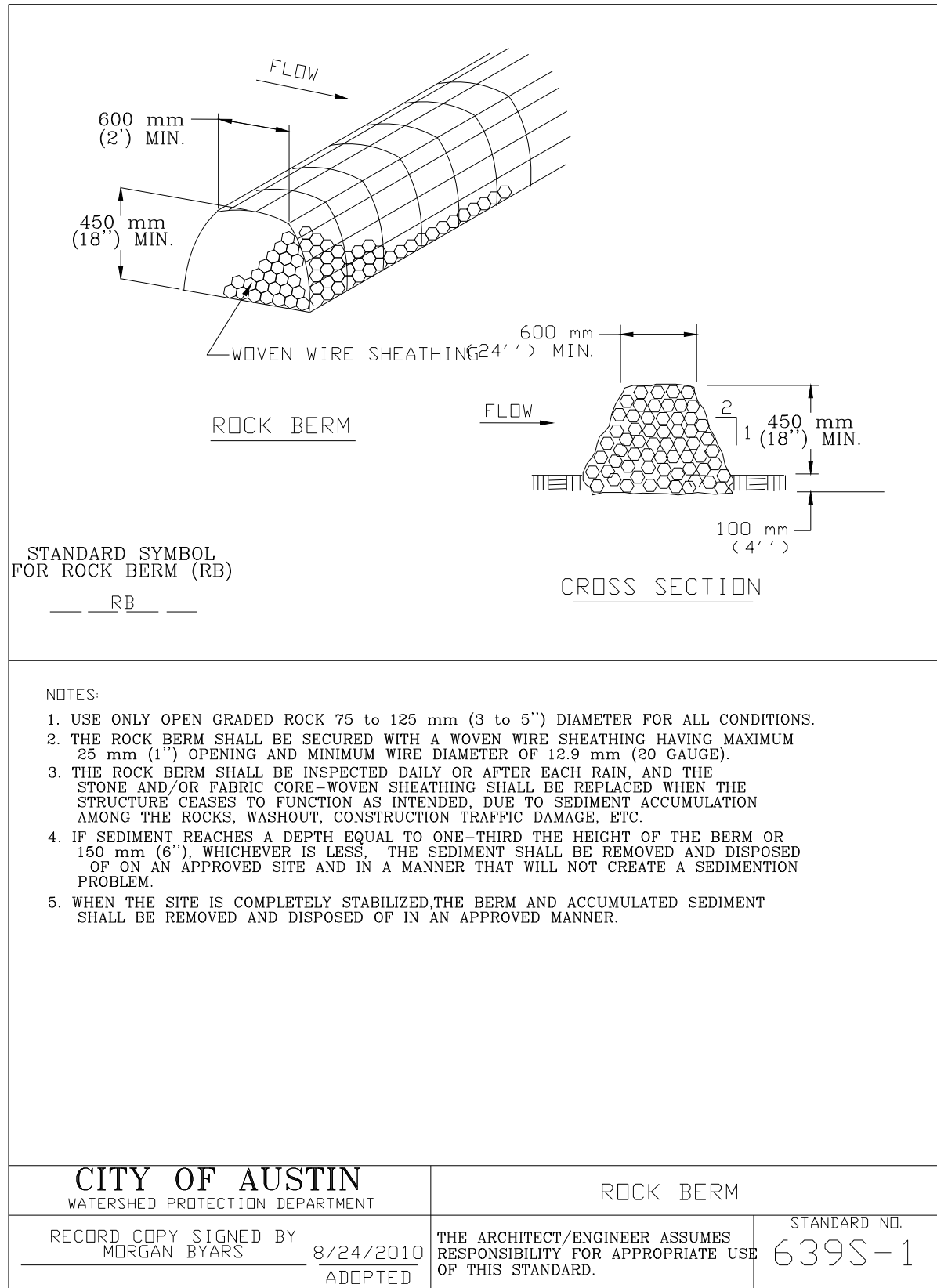
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CONTRACTOR TO BE DETERMINED PHONE # TO BE DETERMINED.

PARTY RESPONSIBLE FOR TREE/NATURAL AREA PROTECTION MAINTENANCE:

CONTRACTOR TO BE DETERMINED PHONE # TO BE DETERMINED.

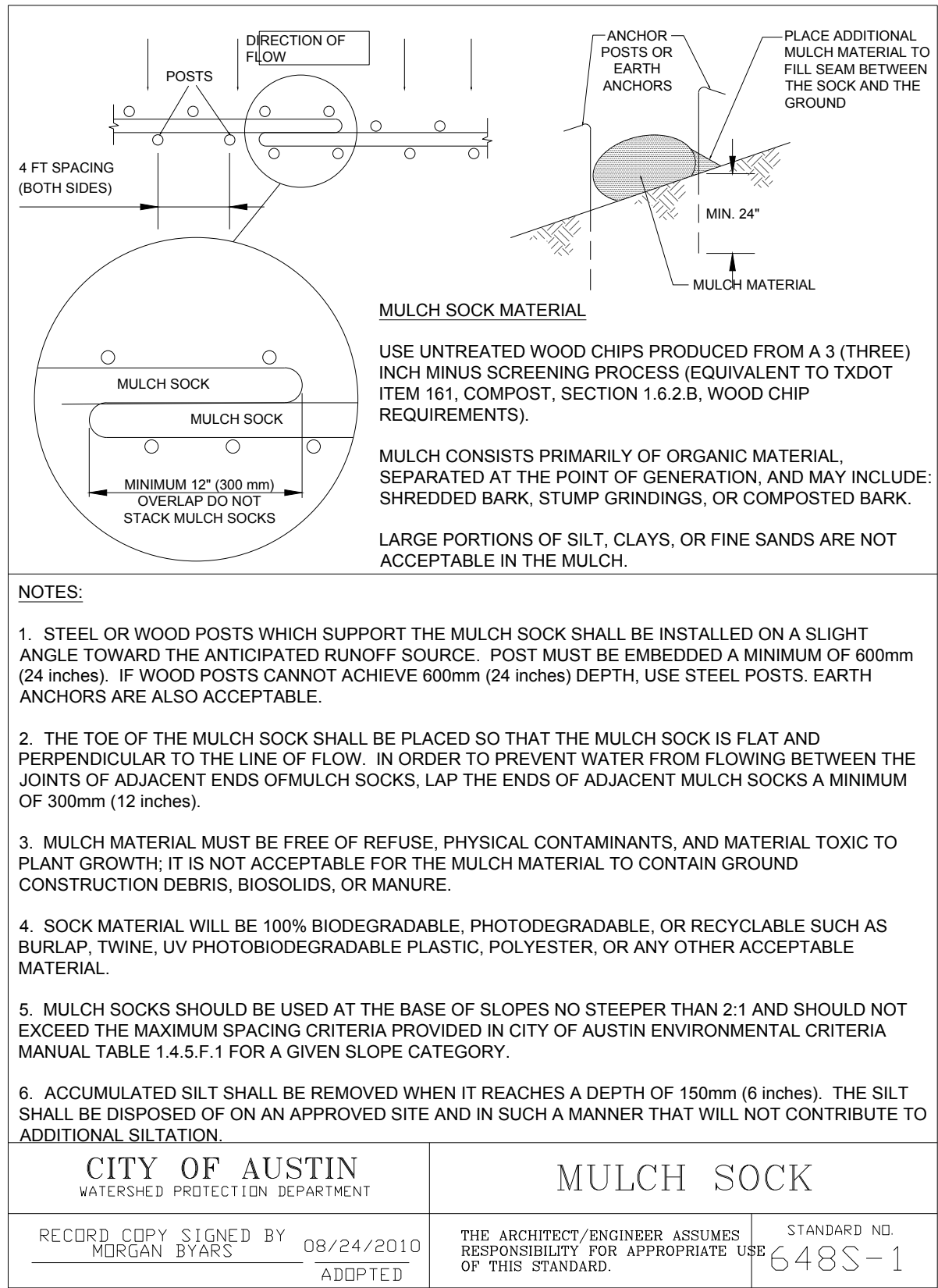
12. THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING THE GENERAL PERMIT PROGRAM INSPECTOR AT 974-6330 AT LEAST 48 HOURS PRIOR TO THE SPOILS REMOVAL. THIS NOTIFICATION SHALL INCLUDE THE DISPOSAL LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL.
13. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY PRIOR TO STREET WORK, AND WILL BE REMOVED AS SOON AS THE GENERAL PERMIT PROGRAM INSPECTOR AGREES THAT THERE IS NO POTENTIAL FOR SEDIMENTATION.



SEQUENCE OF CONSTRUCTION:

1. SET UP EROSION AND SEDIMENT CONTROL MEASURES.
2. EXCAVATE AND RECOMPACT DAM EMBANKMENT MATERIAL FOR SLOUGH REPAIRS.
3. REPLACE DAM TOE TO DRAIN.
4. FILL EROSION HOLES ADJACENT TO CONCRETE CHUTE.
5. REPAIR SPRINKLERS.
6. SEAL CONCRETE AND SPILLWAY JOINTS.
7. CLEAR CONCRETE DITCHES, CHUTES AND AND ROCK RIPRAP.
8. ACHIEVE SITE STABILIZATION.
9. REMOVE EROSION CONTROL MEASURES.

NOTE:
CONSTRUCTION ACTIVITIES 2 THROUGH 7 ARE NOT LINEAR AND CAN BE DONE IN WHICHEVER ORDER THE CONTRACTOR SEES FIT. CONSTRUCTION ACTIVITIES MAY ALSO OVERLAP. AS A RESULT, CONSTRUCTION ACTIVITIES MAY BE AT DIFFERENT STAGES AT DIFFERENT LOCATIONS IN THE PROJECT AREA.



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AUSTIN ENERGY
DECKER DAM SLOUGH REPAIRS
EROSION AND SEDIMENTATION CONTROL NOTES

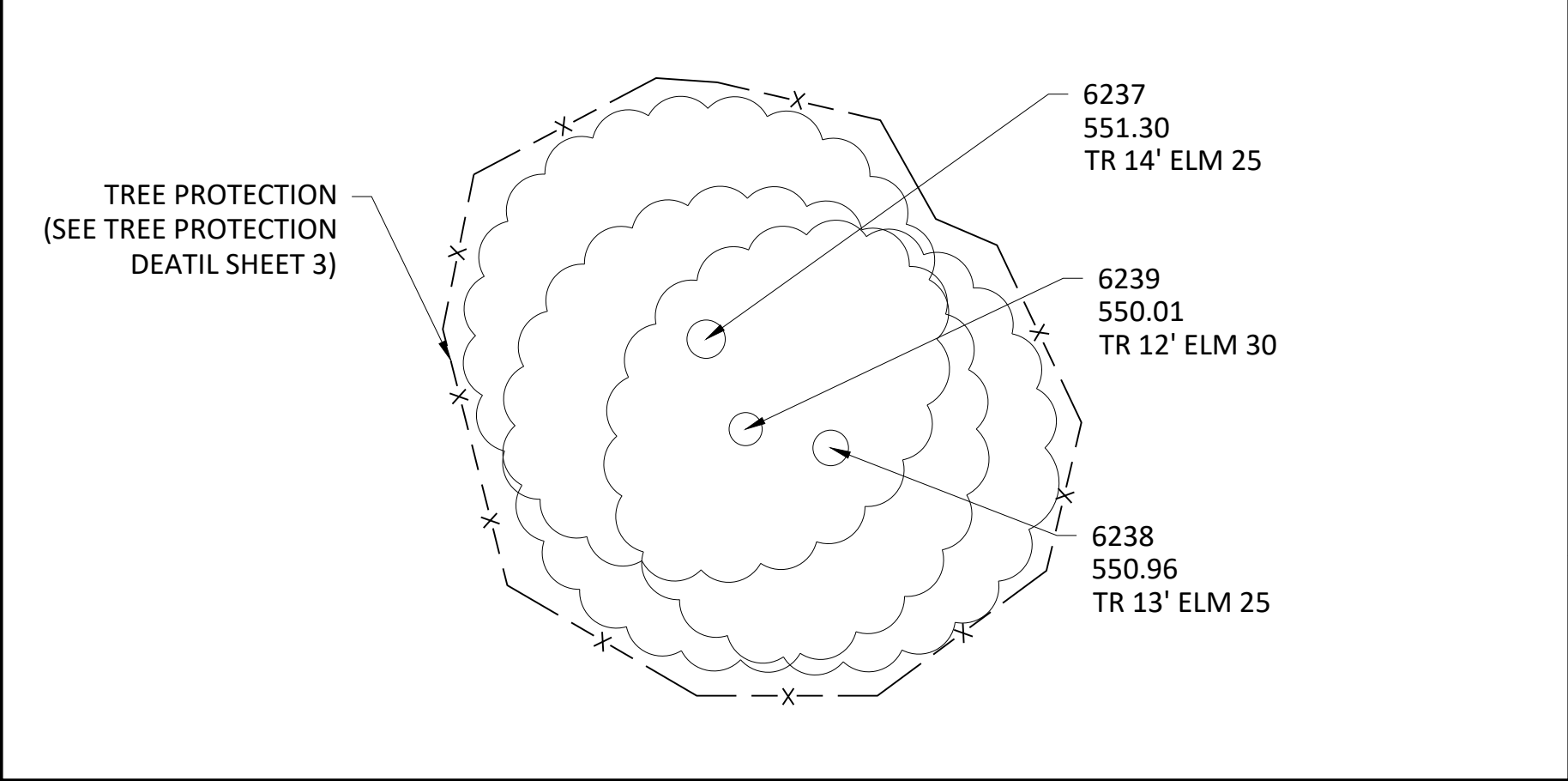
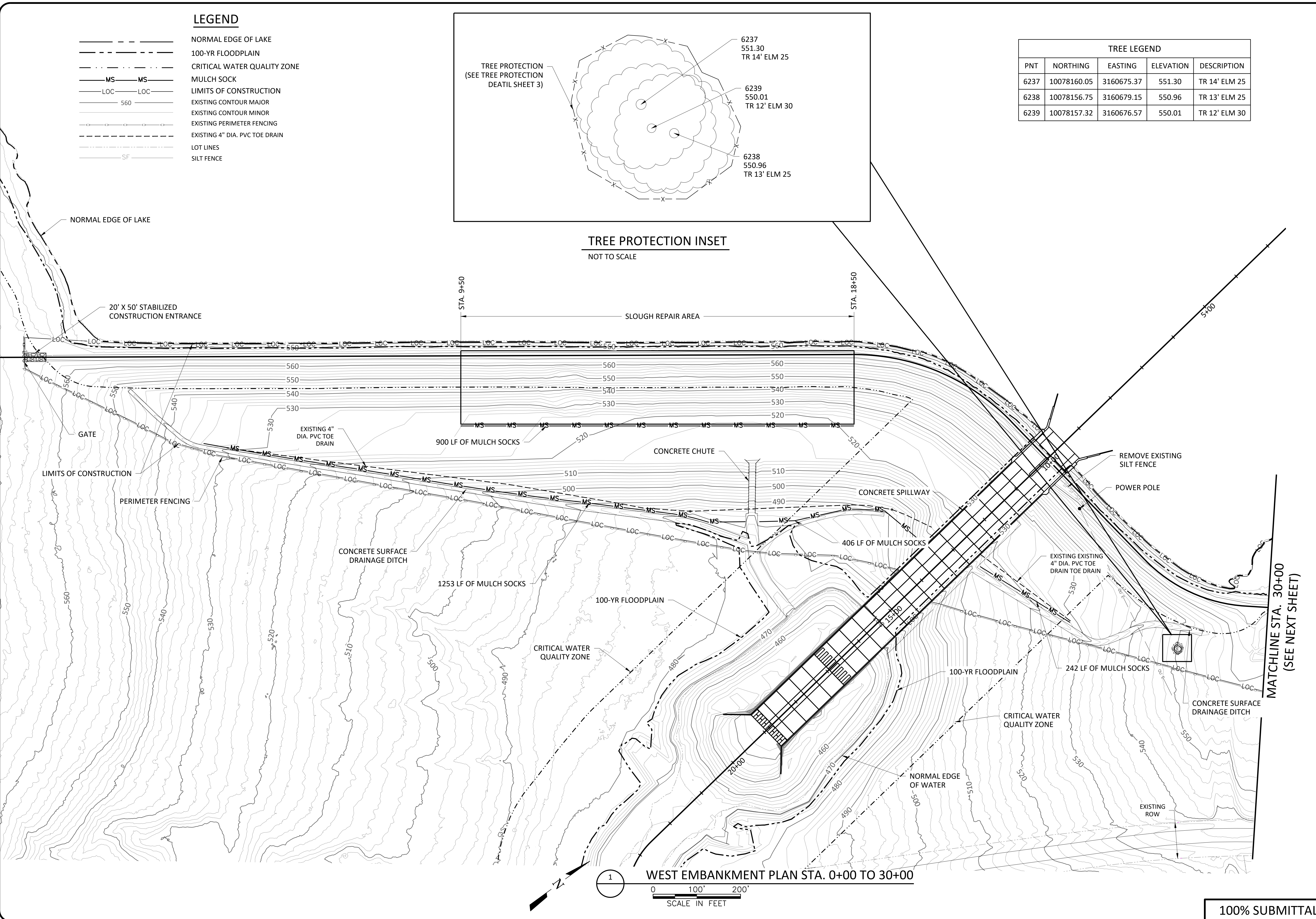
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SHEET
2

SEQ.

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TREE LEGEND				
PNT	NORTHING	EASTING	ELEVATION	DESCRIPTION
6237	10078160.05	3160675.37	551.30	TR 14' ELM 25
6238	10078156.75	3160679.15	550.96	TR 13' ELM 25
6239	10078157.32	3160676.57	550.01	TR 12' ELM 30

- LEGEND**
- NORMAL EDGE OF LAKE
 - 100-YR FLOODPLAIN
 - CRITICAL WATER QUALITY ZONE
 - MULCH SOCK
 - LIMITS OF CONSTRUCTION
 - EXISTING CONTOUR MAJOR
 - EXISTING CONTOUR MINOR
 - EXISTING PERIMETER FENCING
 - EXISTING 4" DIA. PVC TOE DRAIN
 - LOT LINES
 - SILT FENCE

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Texas Registered Engineering Firm F-3144

Dustin Mortensen
7/30/2020

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AUSTIN ENERGY

DECKER DAM SLOUGH REPAIRS

F&N JOB NO. AU419379

DATE 03/06/20

DESIGNED DGM

DRAWN TTH

REVISED NO/TTH

CHECKED DGM

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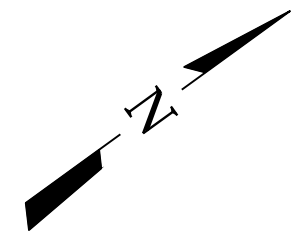
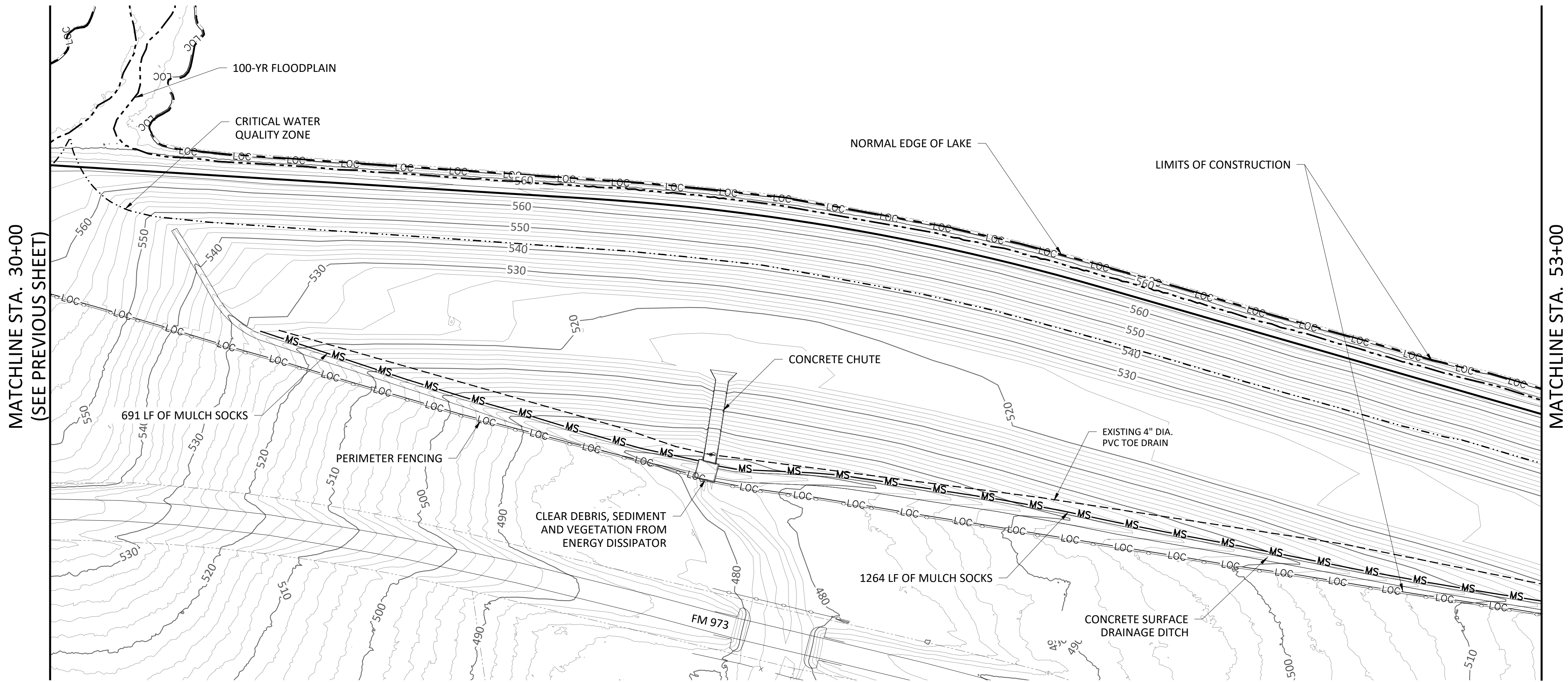
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EROSION, SEDIMENTATION AND ENVIRONMENTAL PLAN

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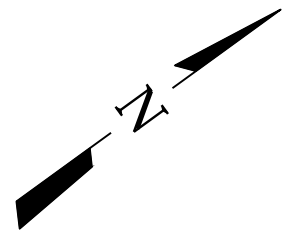
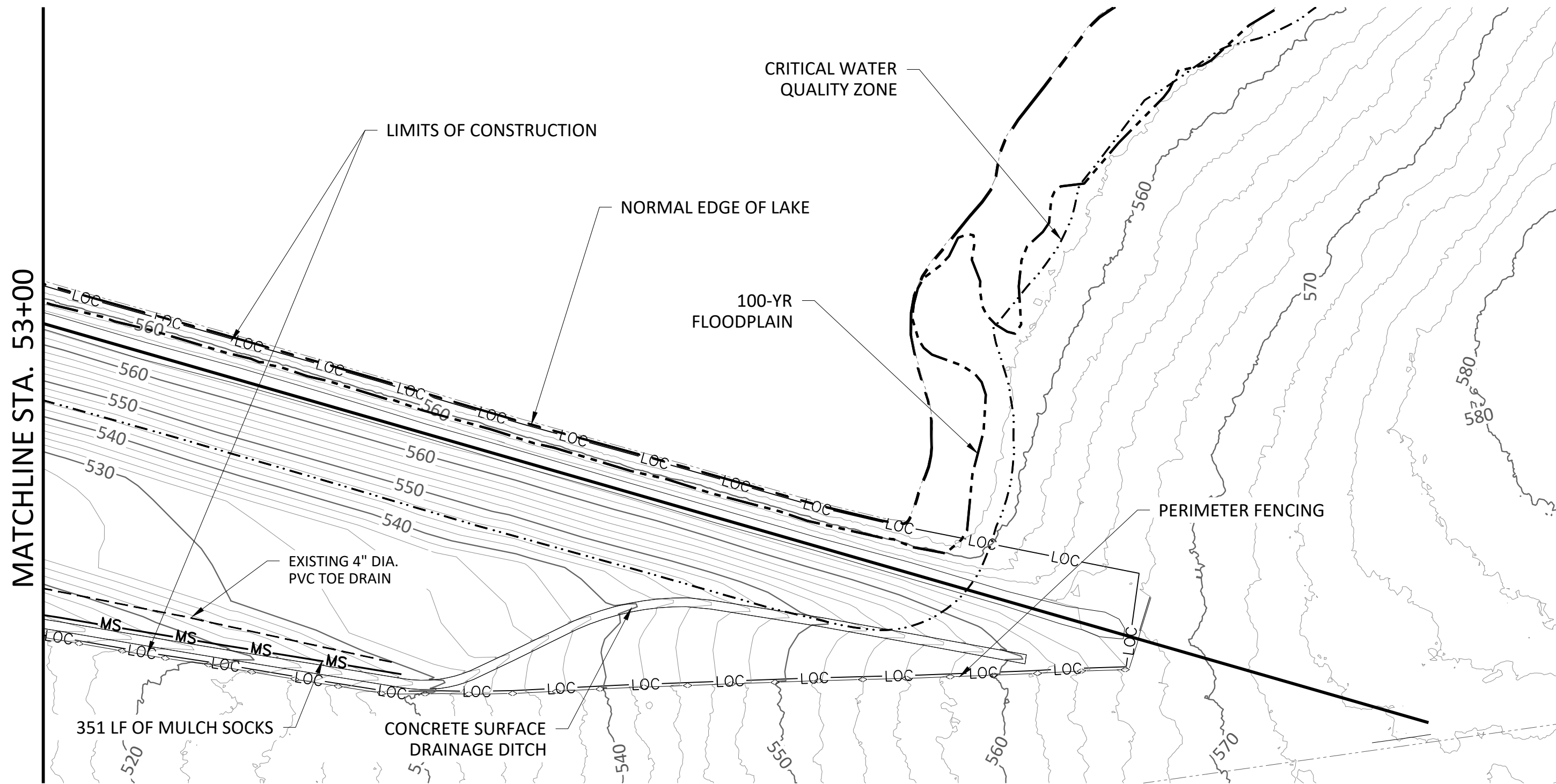
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2

EAST EMBANKMENT PLAN STA. 30+00 TO 53+00

0 100' 200'
SCALE IN FEET



3

EAST EMBANKMENT PLAN STA. 53+00 TO END

0 100' 200'
SCALE IN FEET

LEGEND

- NORMAL EDGE OF LAKE
- 100-YR FLOODPLAIN
- CRITICAL WATER QUALITY ZONE
- MULCH SOCK
- LIMITS OF CONSTRUCTION
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- EXISTING PERIMETER FENCING
- EXISTING 4" DIA. PVC TOE DRAIN
- LOT LINES

0 100' 200'
SCALE IN FEET

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AUSTIN ENERGY

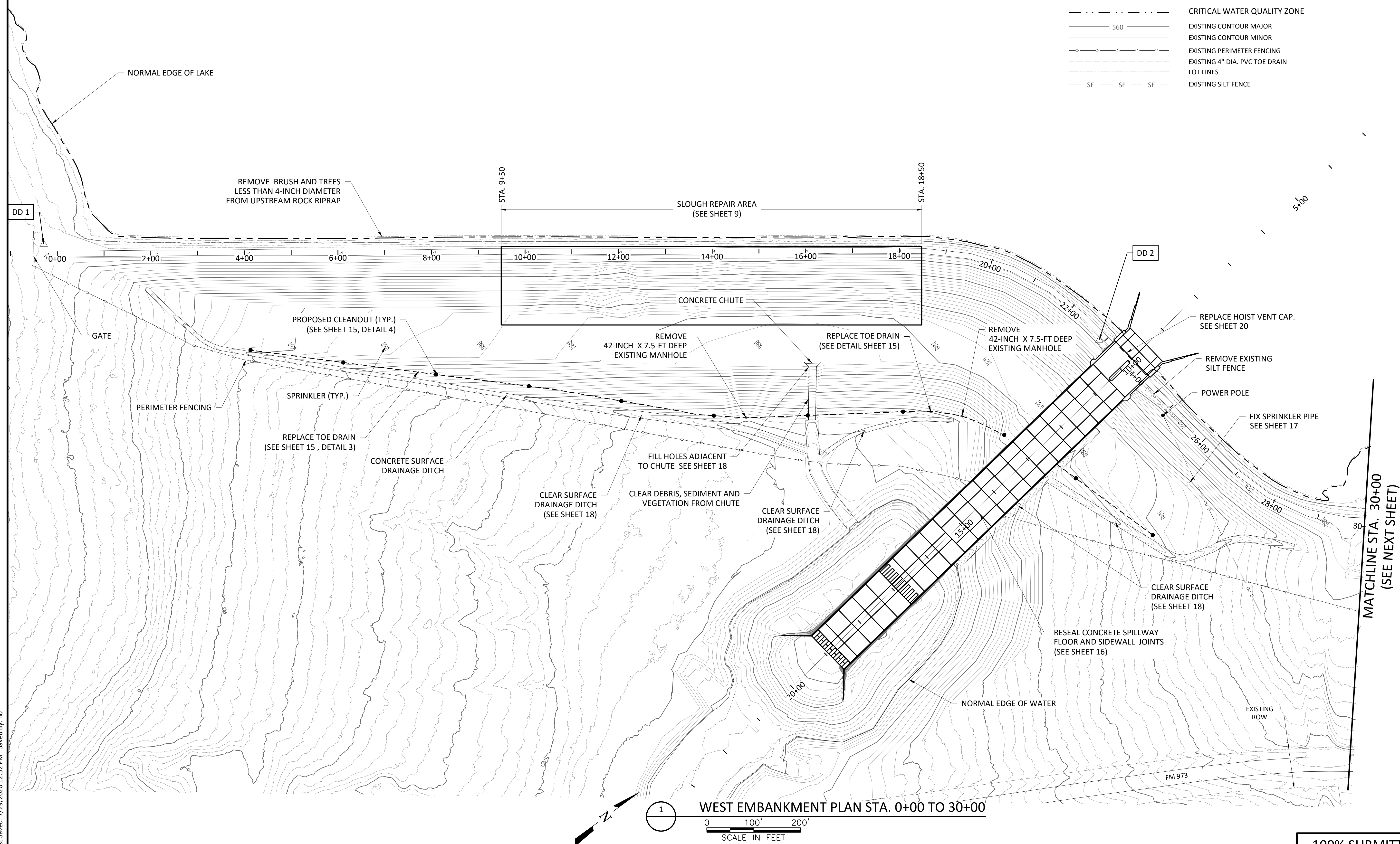
DECKER DAM SLOUGH REPAIRS


EROSION, SEDIMENTATION AND ENVIRONMENTAL PLAN

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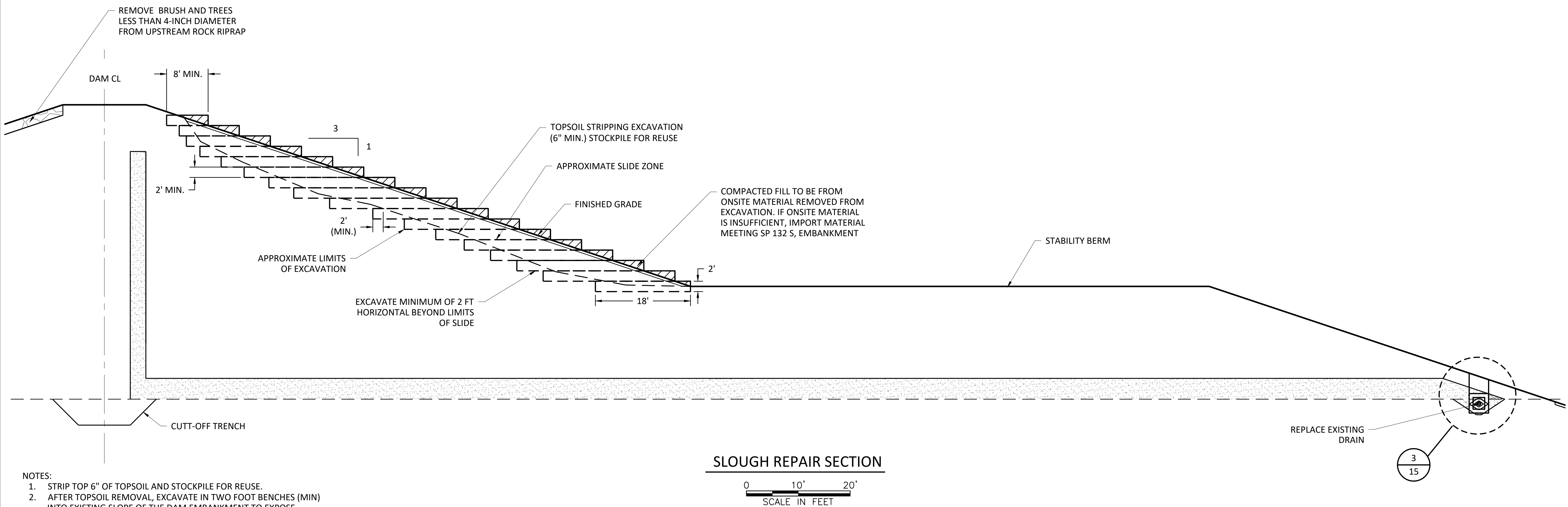
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AUSTIN ENERGY
DECKER DAM SLOUGH REPAIRS
WEST EMBANKMENT SITE PL



- NOTES:
1. STRIP TOP 6" OF TOPSOIL AND STOCKPILE FOR REUSE.
 2. AFTER TOPSOIL REMOVAL, EXCAVATE IN TWO FOOT BENCHES (MIN) INTO EXISTING SLOPE OF THE DAM EMBANKMENT TO EXPOSE UNDISTURBED SOIL
 3. PLACE COMPACTED FILL IN MINIMUM OF 8 FOOT WIDE SECTIONS IN 8 INCH LIFTS BEYOND THE FINISHED GRADE TO ENSURE THOROUGH COMPACTION OF EACH LIFT. THE COMPACTED FILL OUTSIDE THE FINAL GRADE WILL NOT BE MEASURED FOR PAYMENT.
 4. REMOVE EXCESS COMPACTED FILL TO ACHIEVE EMBANKMENT GRADE AFTER MOISTURE AND DENSITY MEASUREMENTS HAVE PASSED THE REQUIREMENTS IN THE SPECIFICATION.



7/30/2020

Dustin Mortensen



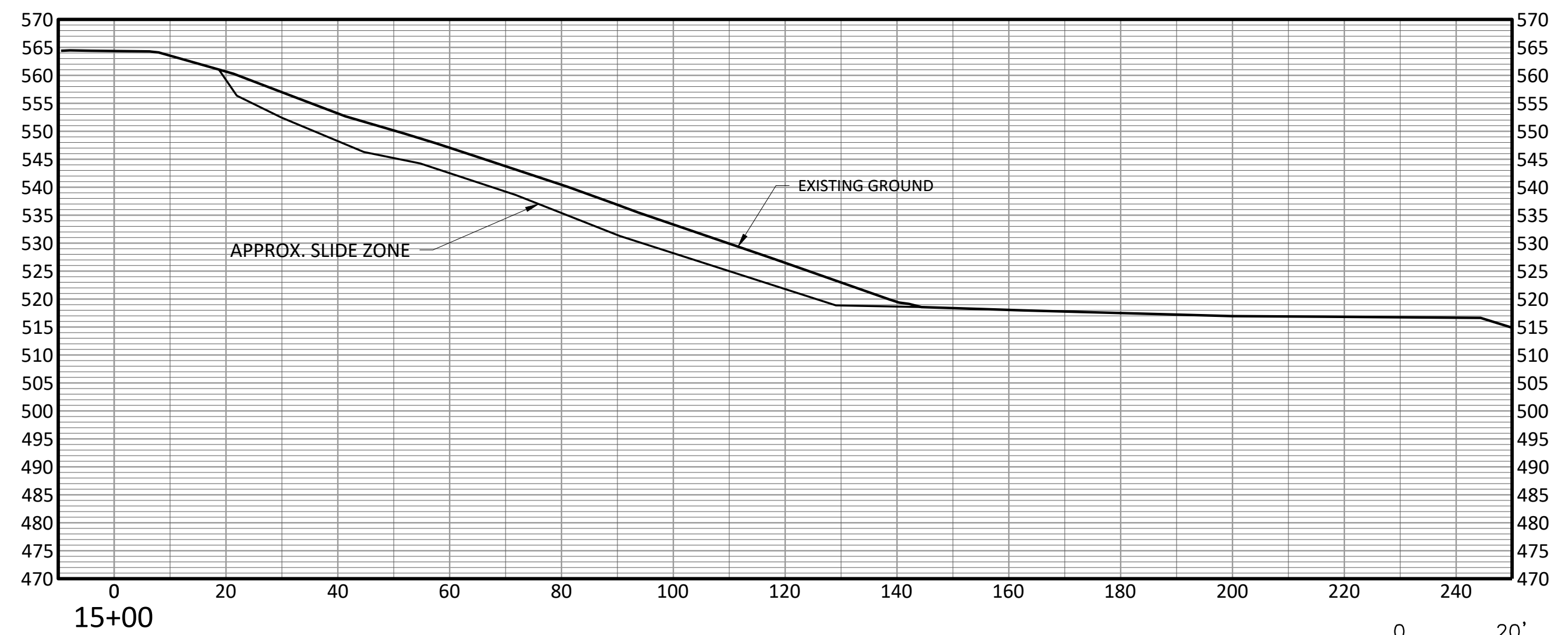
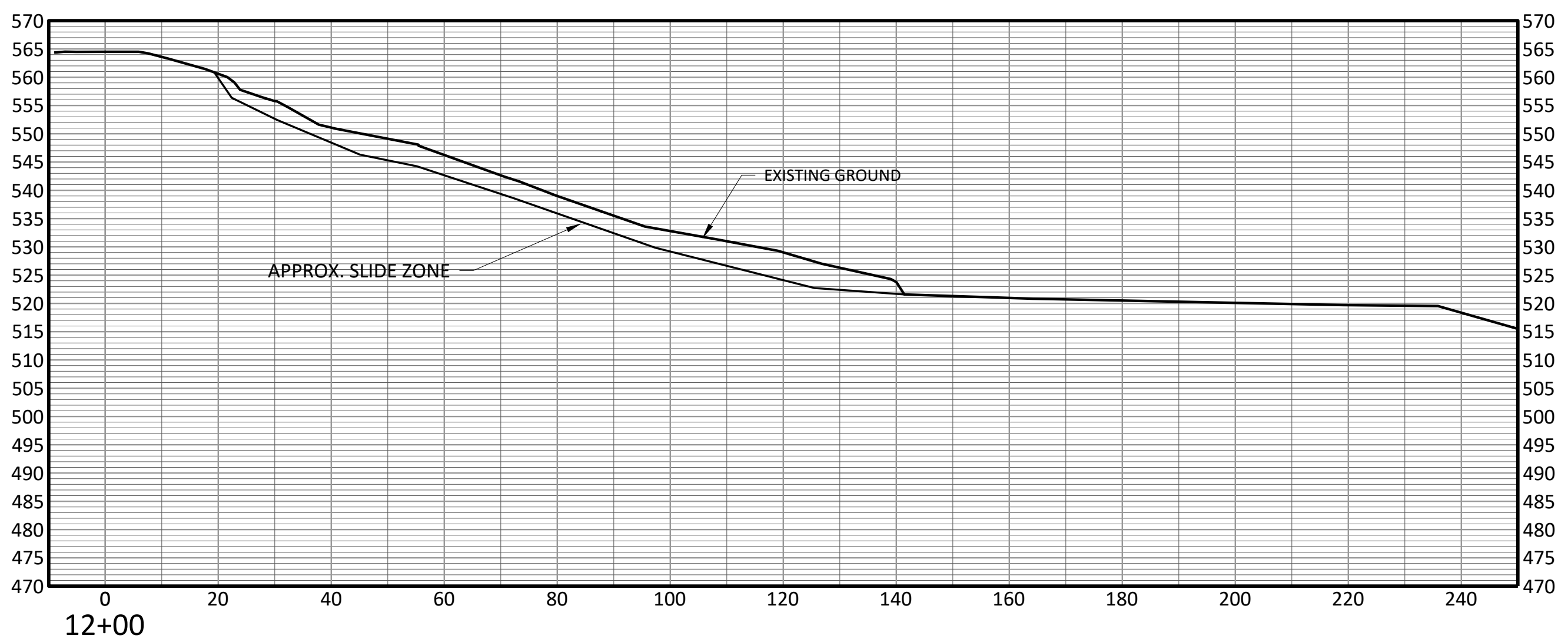
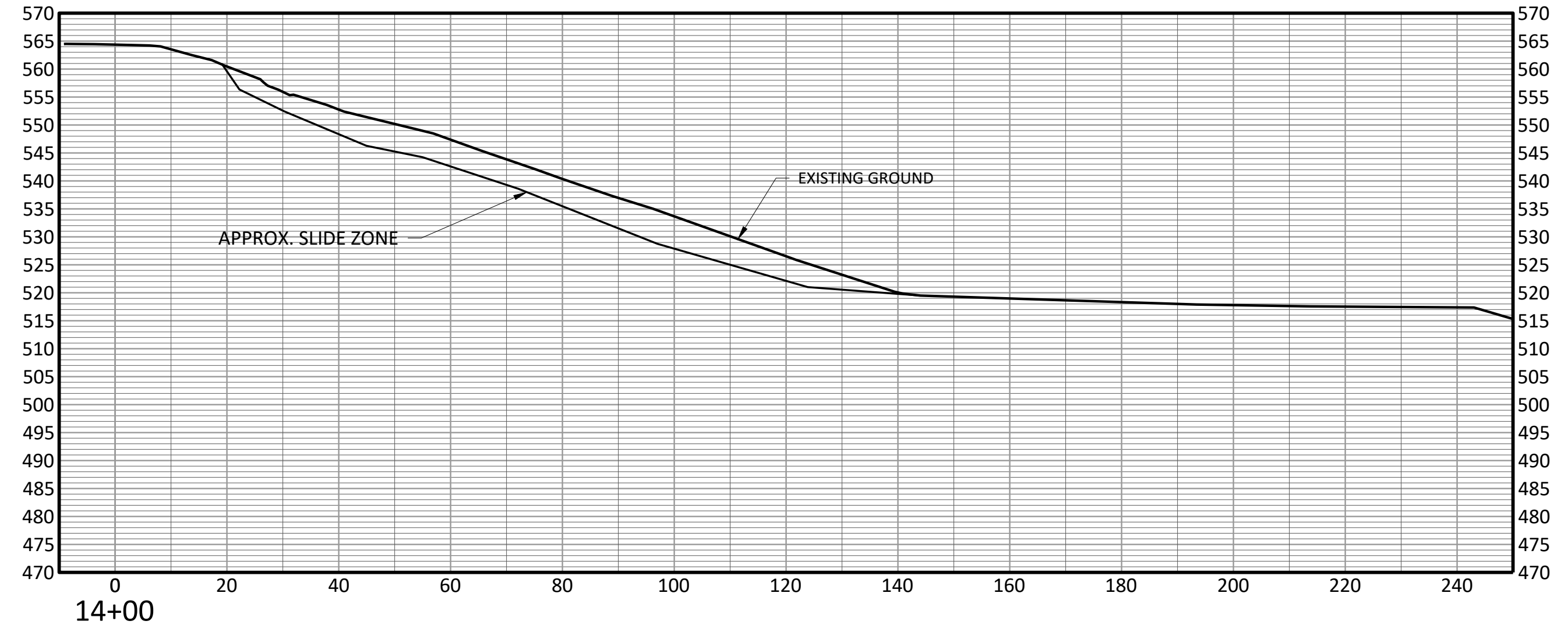
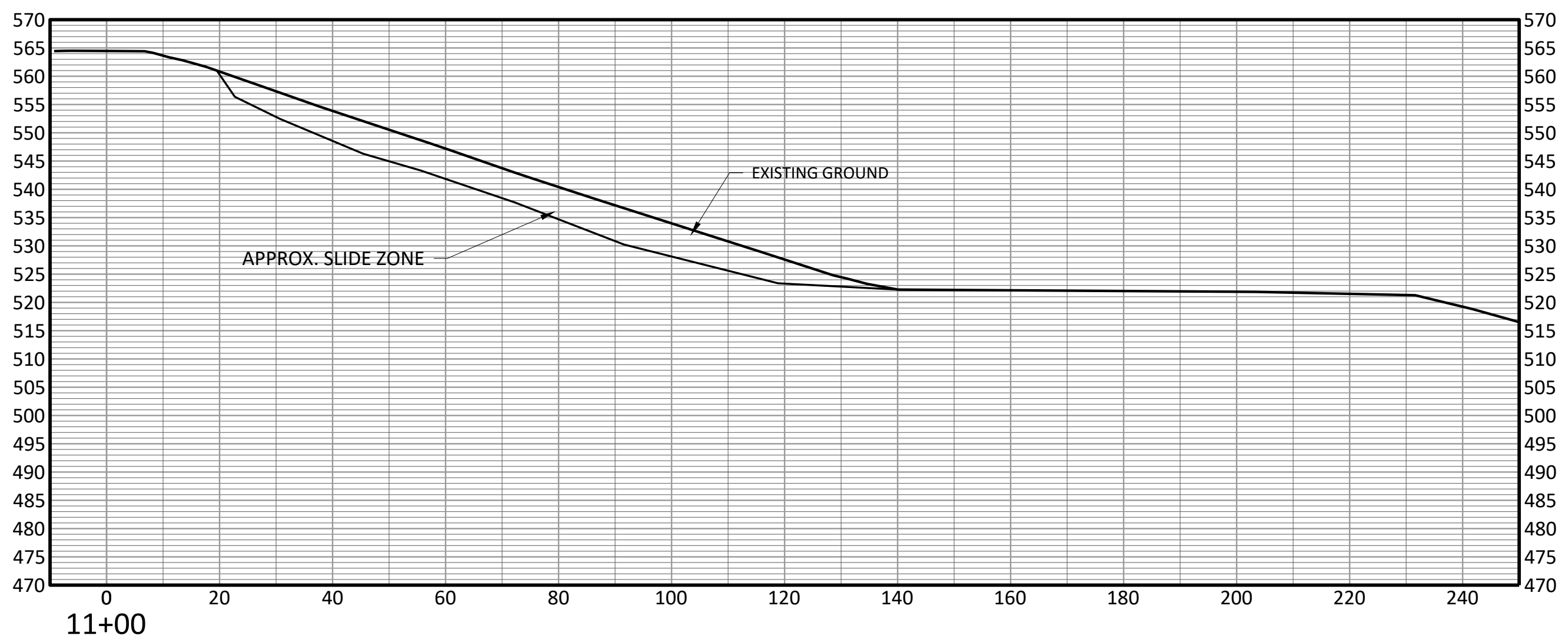
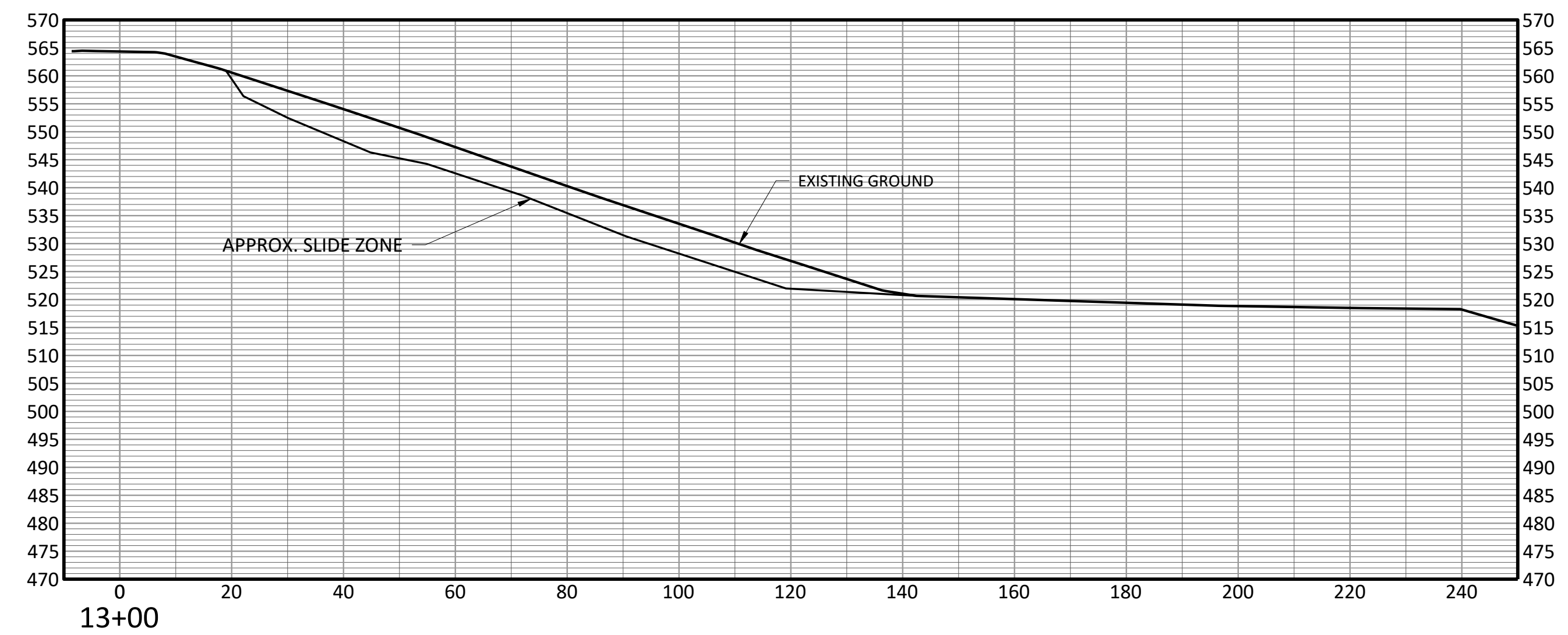
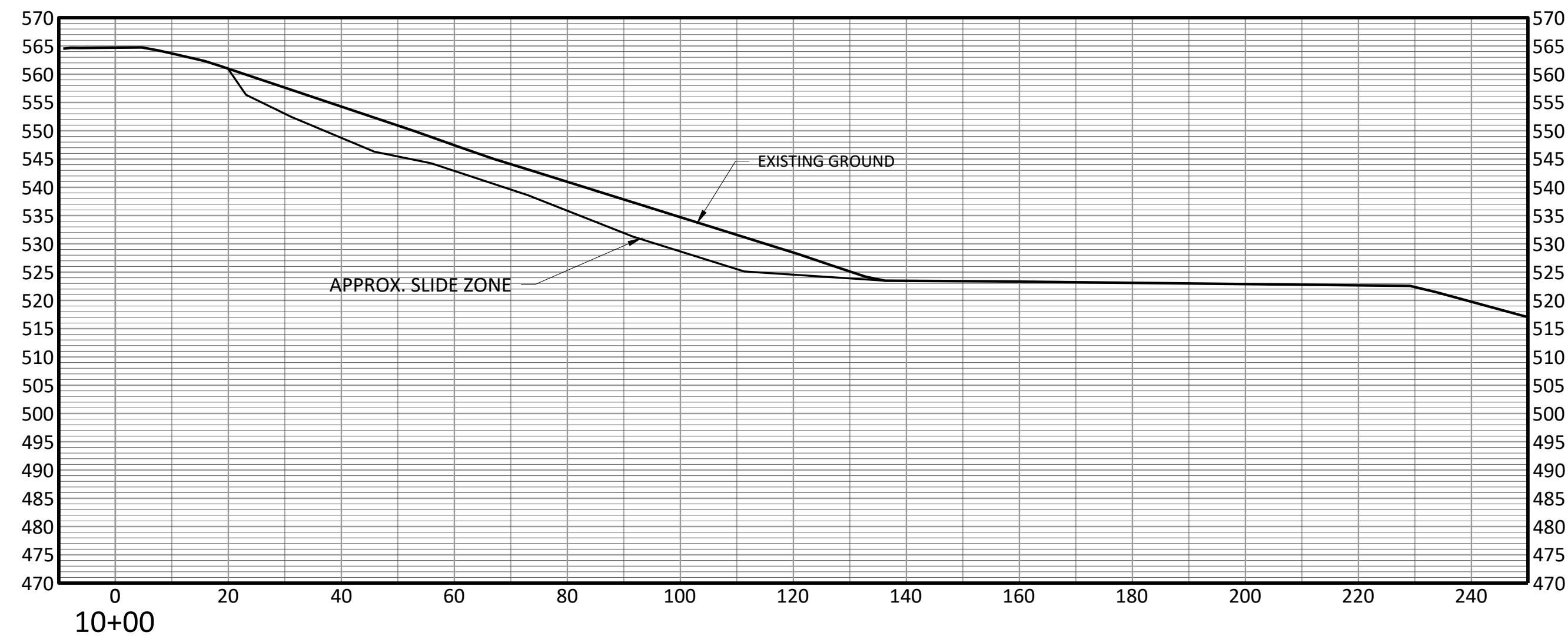
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AUSTIN ENERGY
DECKER DAM SLOUGH REPAIRS

EMBANKMENT SECTIONS

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7/30/2020

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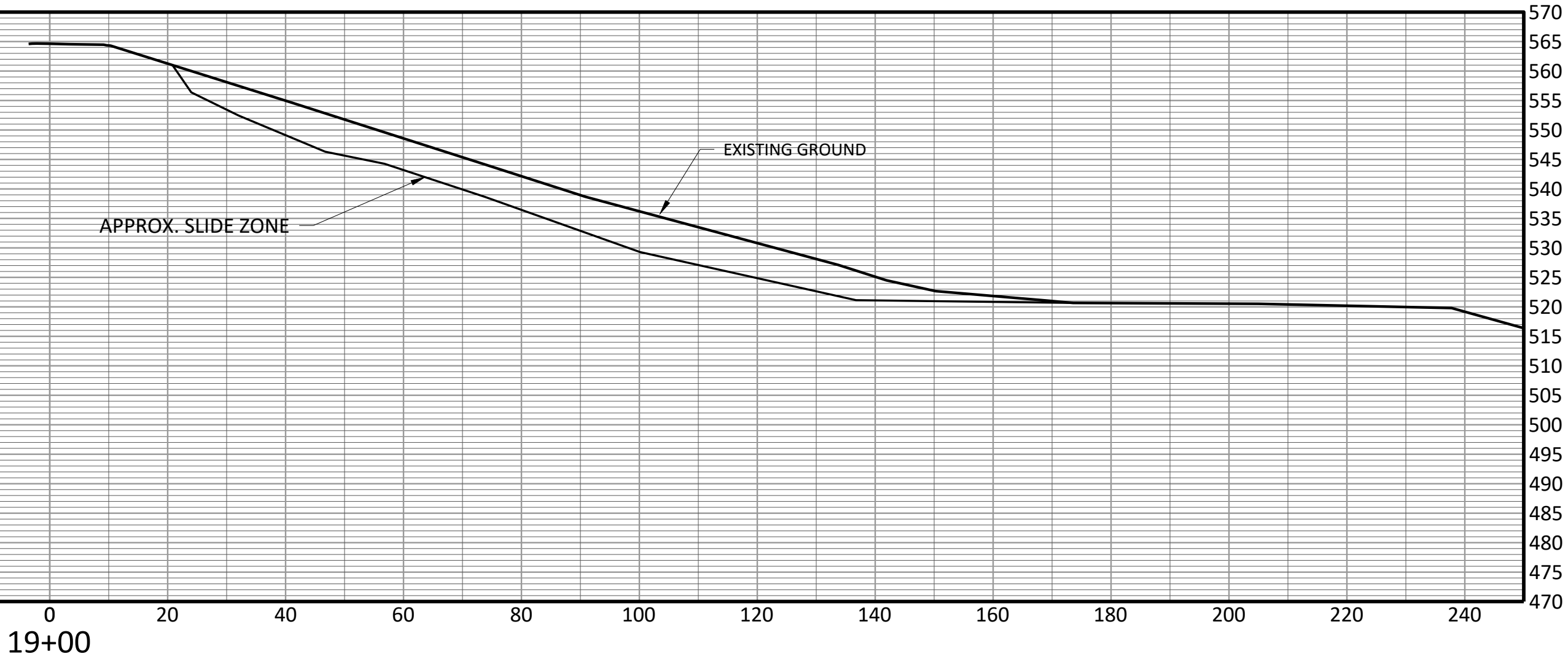
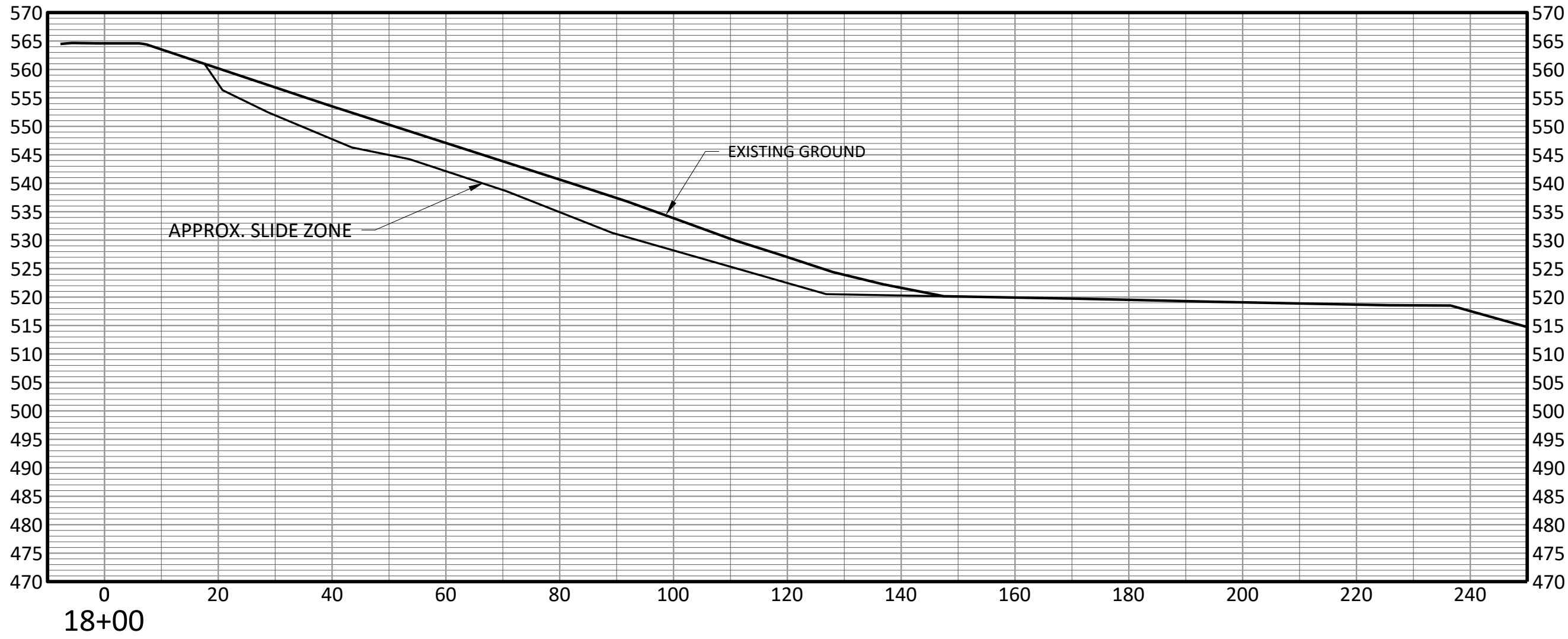
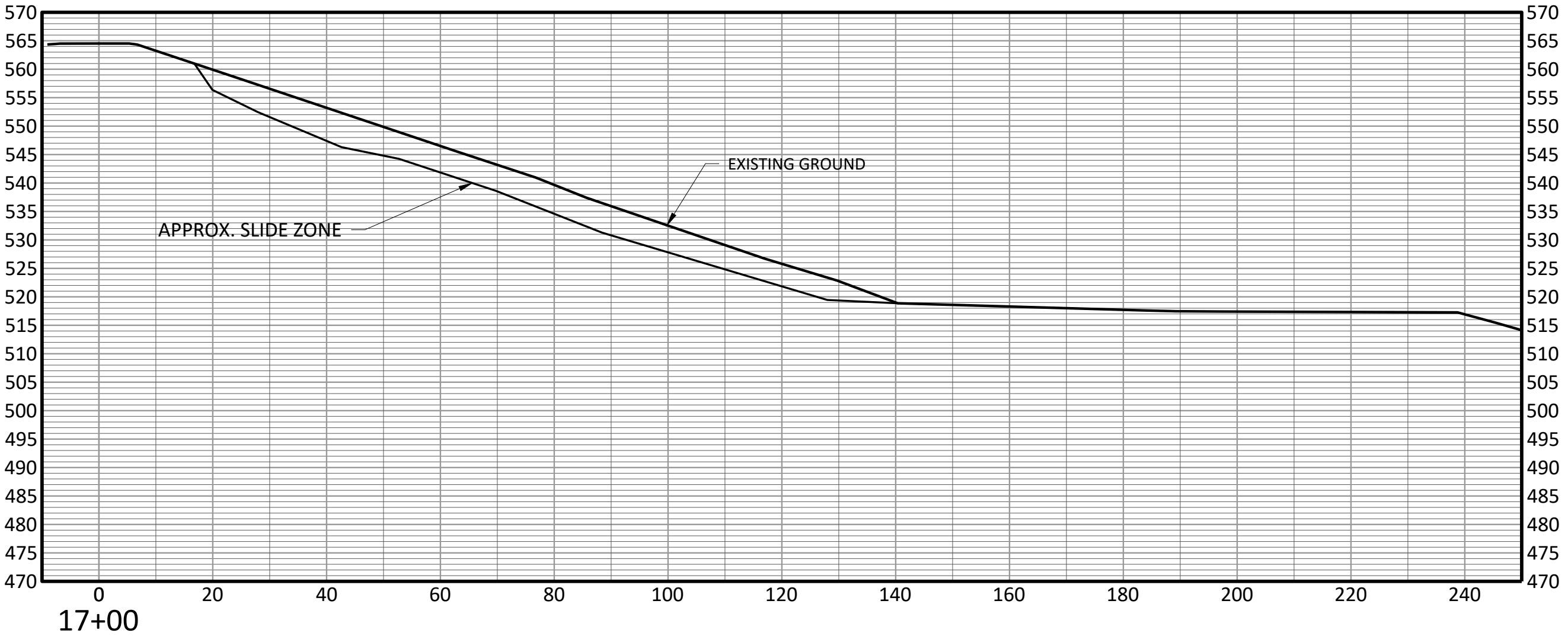
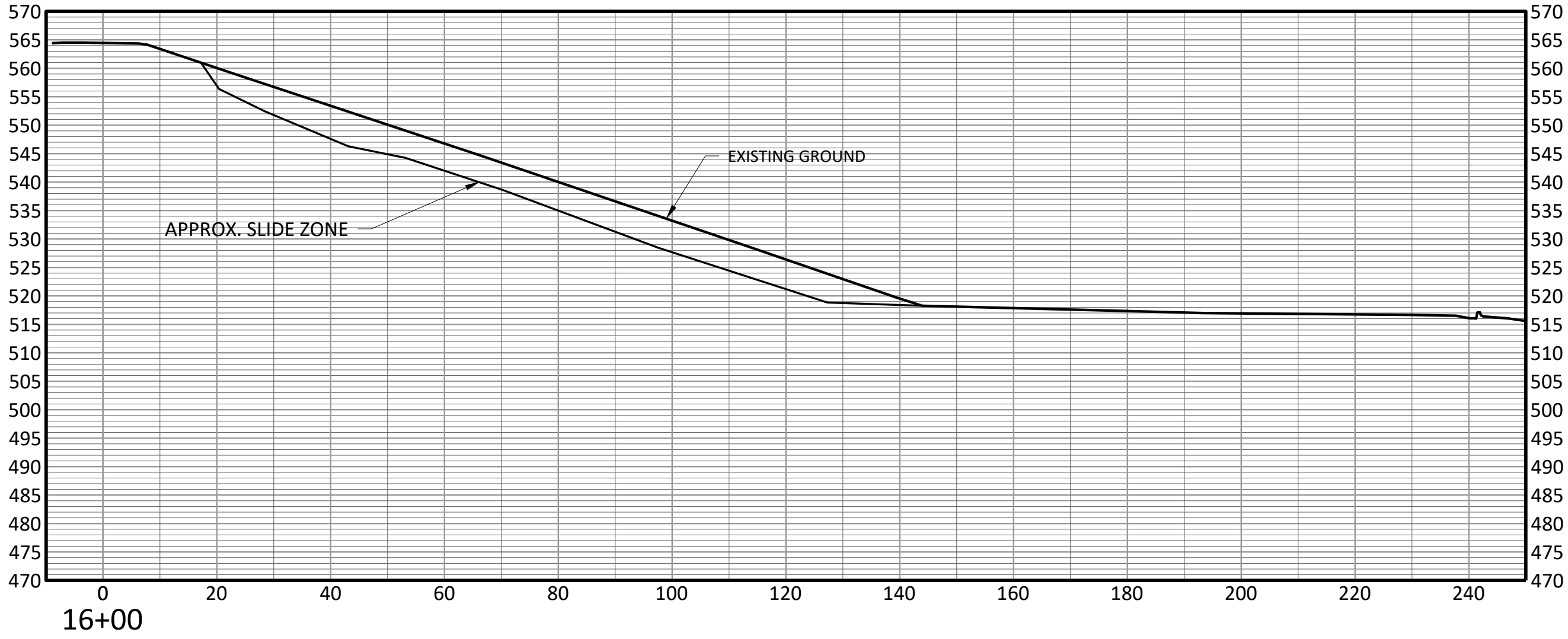
AUSTIN ENERGY

DECKER DAM SLOUGH REPAIRS

EMBANKMENT SECTIONS

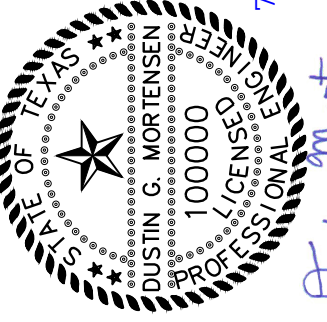
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0 20' 40'
SCALE IN FEET

Freeze and Nichols, Inc.
Texas Registered Engineering Firm F-1144



7/30/2020

Dustin Mortensen



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AUSTIN ENERGY
DECKER DAM SLOUGH REPAIRS

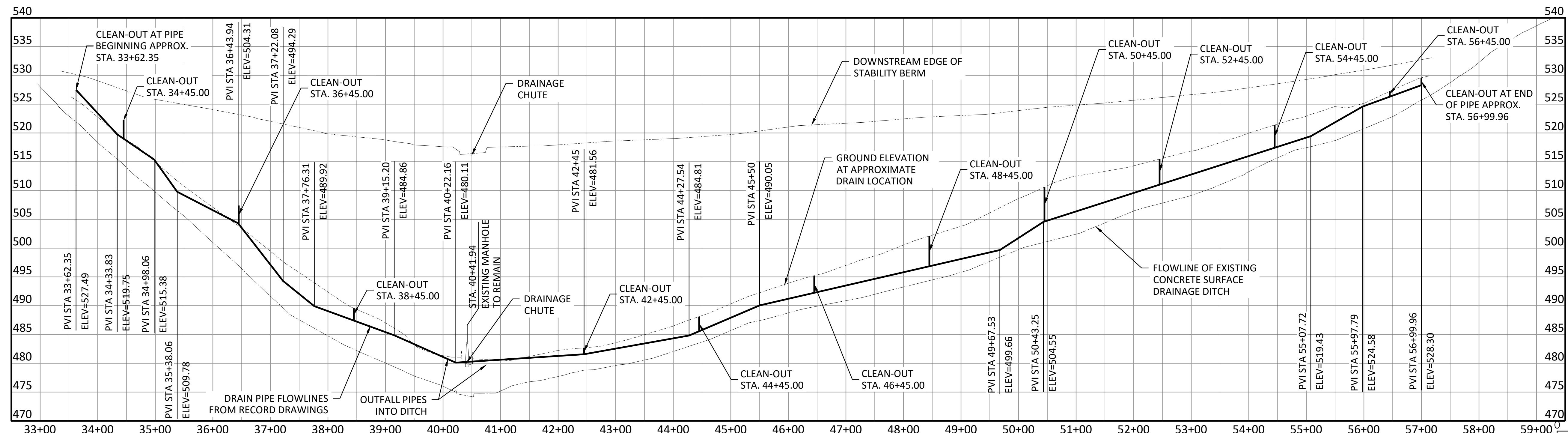
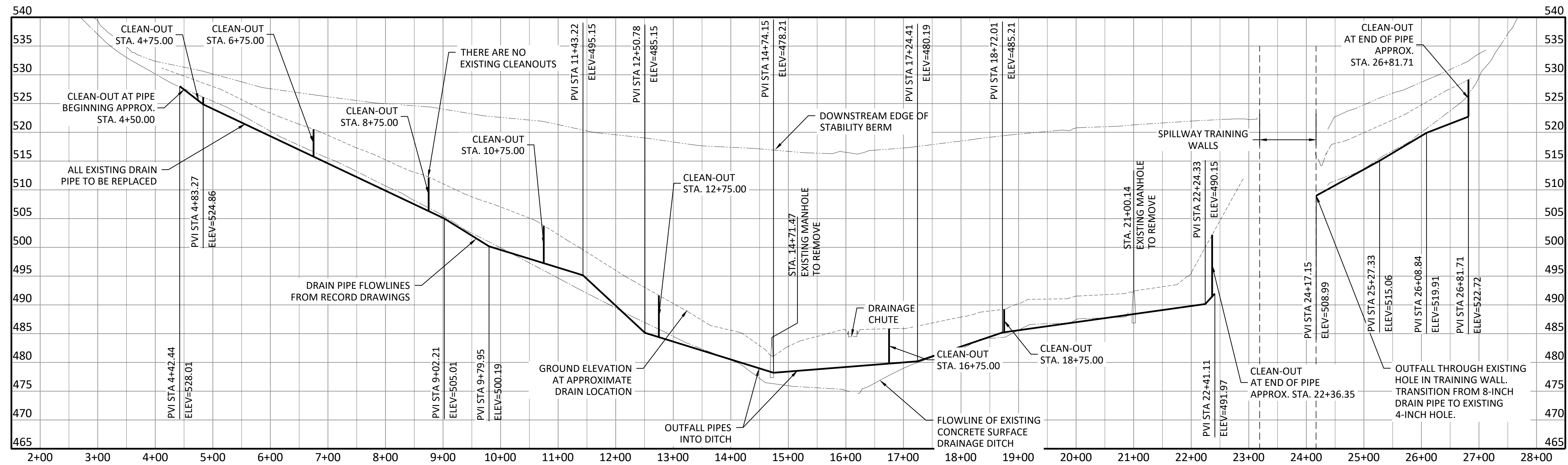
EMBANKMENT SECTIONS

NO.	ISSUE	BY	DATE	F&N JOB NO. AU419379					FILE NAME
				DATE	DESIGNED	DRAWN	REVISD	CHECKED	
				03/06/20	DGN	TTH			CV_SPWY_XSEC01.dwg
VERIFY SCALE 1 Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.									

SHEET 11

SEQ.

100% SUBMITTAL



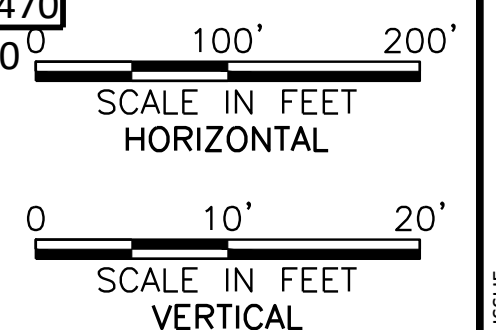
NOTE:

1. DRAIN HORIZONTAL AND VERTICAL ALIGNMENT APPROXIMATED FROM RECORD DRAWINGS.
2. NEW TOE DRAIN WILL BE INSTALLED IN THE SAME HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING TOE DRAIN.
3. CLEANOUT DETAIL SHOWN ON SHEET 15.

LEGEND

- DRAIN PIPE FLOWLINES FROM RECORD DRAWINGS
DOWNSTREAM EDGE OF STABILITY BERM
GROUND ELEVATION AT APPROXIMATE DRAIN LOCATION
FLOWLINE OF EXISTING CONCRETE SURFACE DRAINAGE DITCH

EAST EMBANKMENT DRAIN PROFILES



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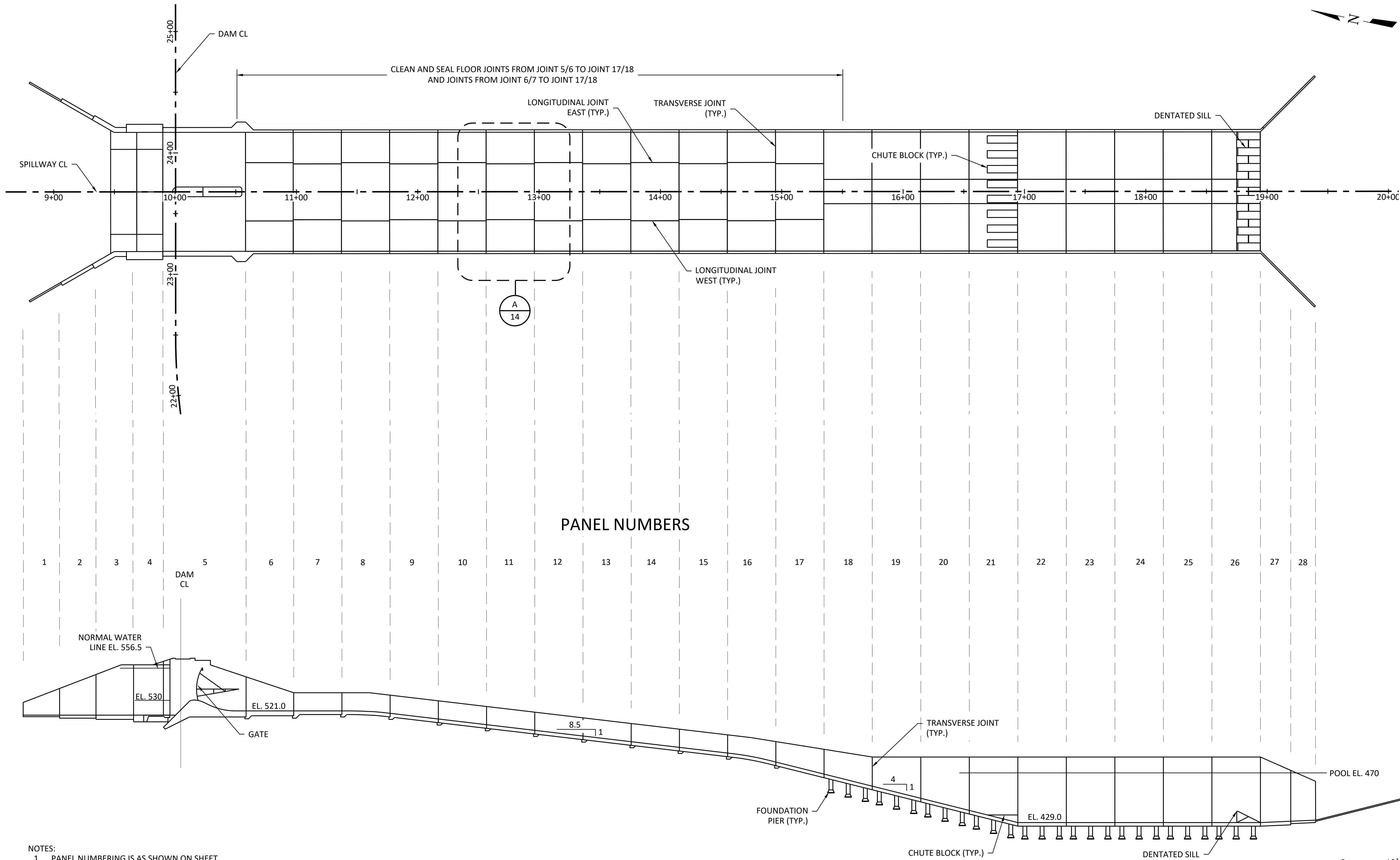
DECKER DAM SLOUGH REPAIRS

IOE DRAIN

VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.		FILE NAME	
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		DRAWN	
		DESIGNED	DGM
		DATE	03/06/20

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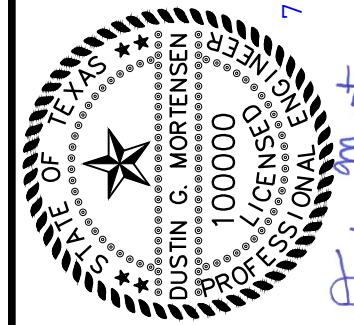
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Filename: N:\WRD\Drawings\CV_SPWY_PNP01.dwg
Last Saved: 7/29/2020 12:52 PM Saved By: no



- NOTES:
1. PANEL NUMBERING IS AS SHOWN ON SHEET
 2. PANELS ARE LABELED EAST (LEFT), CENTER, WEST (RIGHT) WHEN LOOKING DOWNSTREAM
 3. FLOOR LONGITUDINAL AND TRANSVERSE JOINT REPAIRS WILL BE ACCORDING TO DETAILS 1 AND 2, SHEET 16.
 4. SIDEWALL TRANSVERSE JOINT REPAIRS WILL BE ACCORDING TO DETAIL 3, SHEET 16.

0 40' 80'
SCALE IN FEET

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Texas Registered Engineering Firm F-3144



7/30/2020
Dustin Mortensen

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SPILLWAY PLAN AND PROFILE

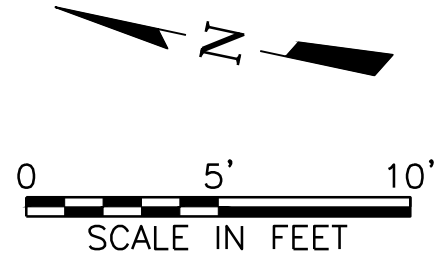
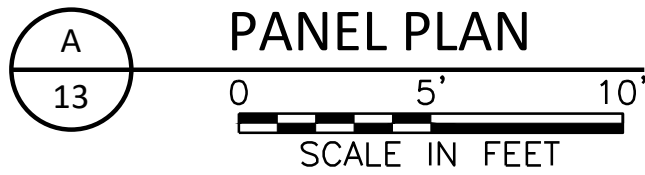
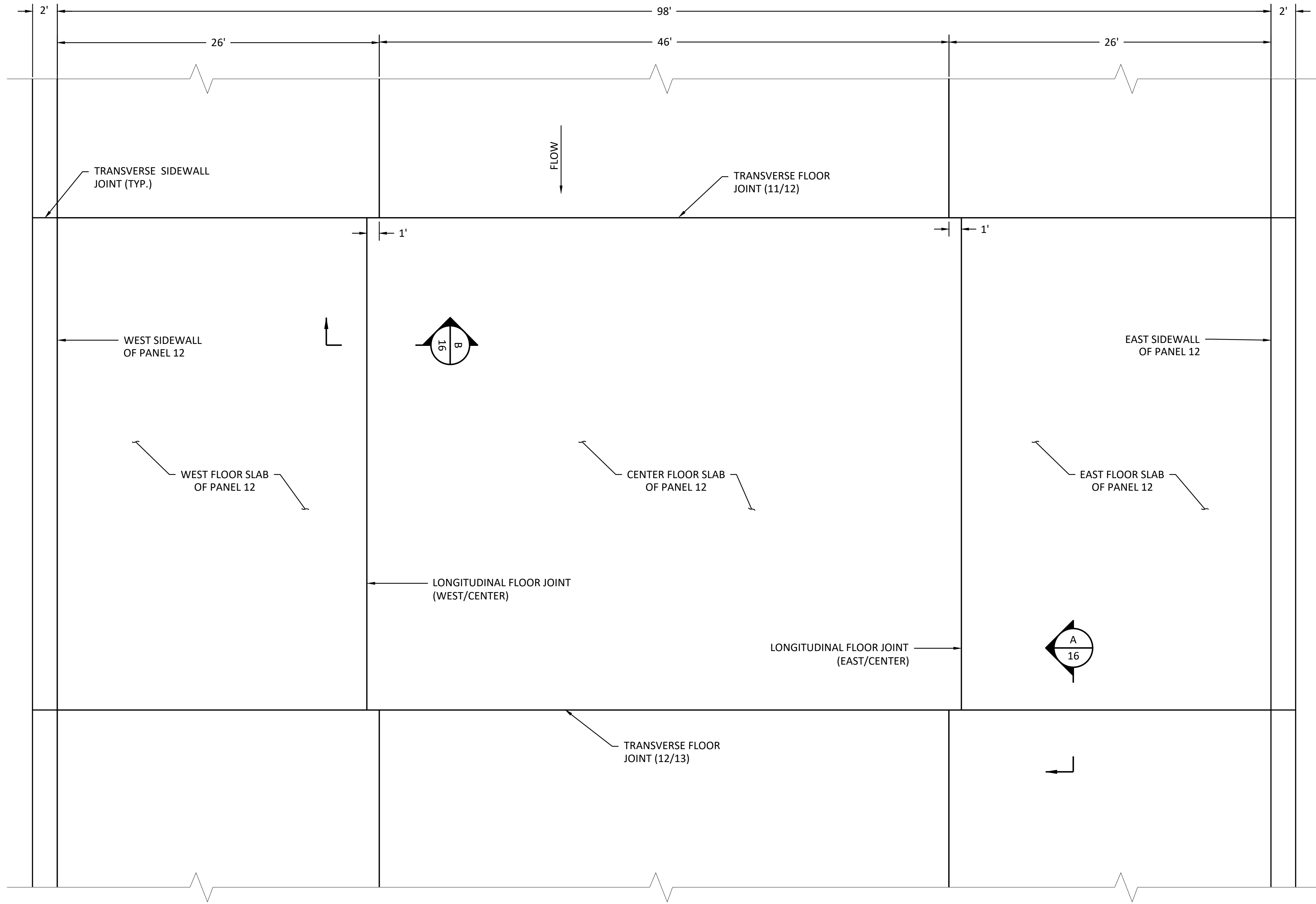
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SHEET 13										
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100% SUBMITTAL

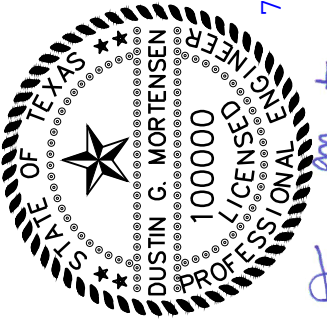
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Last Saved: 7/29/2020 12:52 PM Saved By: no

Plot Date: 7/29/2020 1:49 PM Plot By: no Filename: N:\WRD\Drawings\CV_SPWY_PNP01.dwg

- NOTES:
- THE FIGURE DEPICTS THE JOINT NAMES FOR PANEL 12. JOINT NAMES FOR OTHER PANELS ARE SIMILAR.



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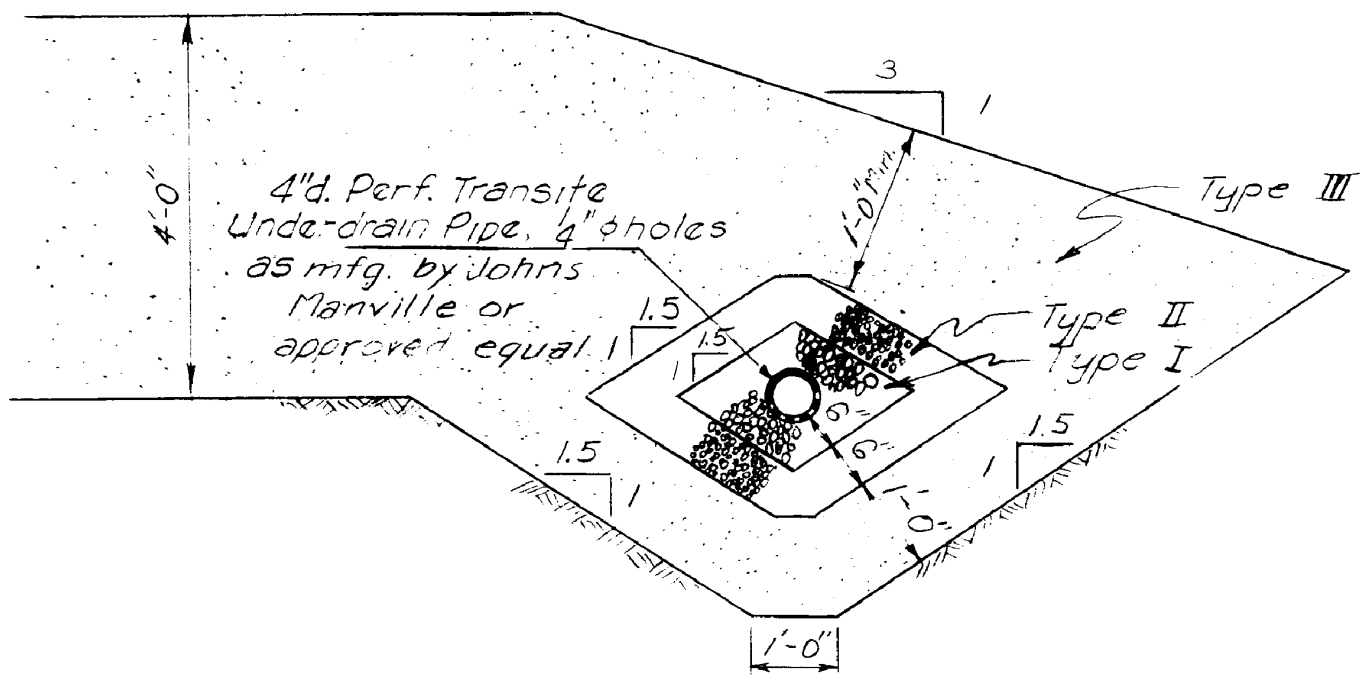
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SPILLWAY PANEL PLAN

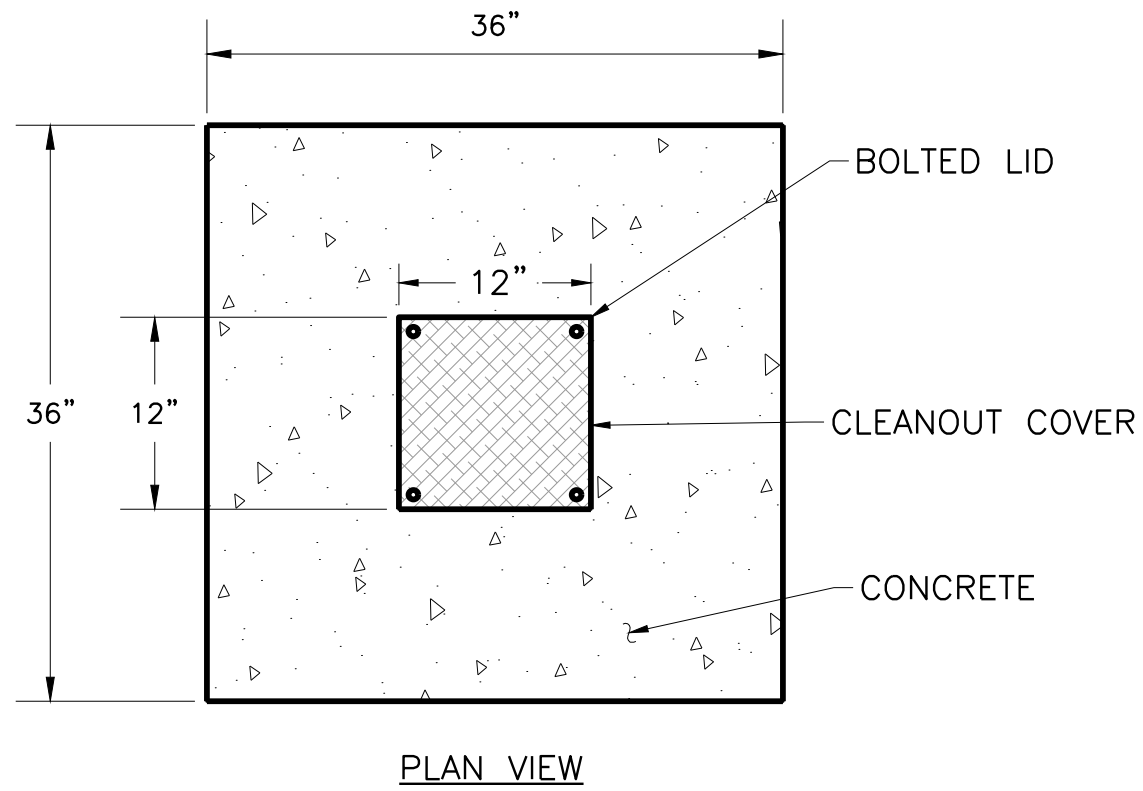
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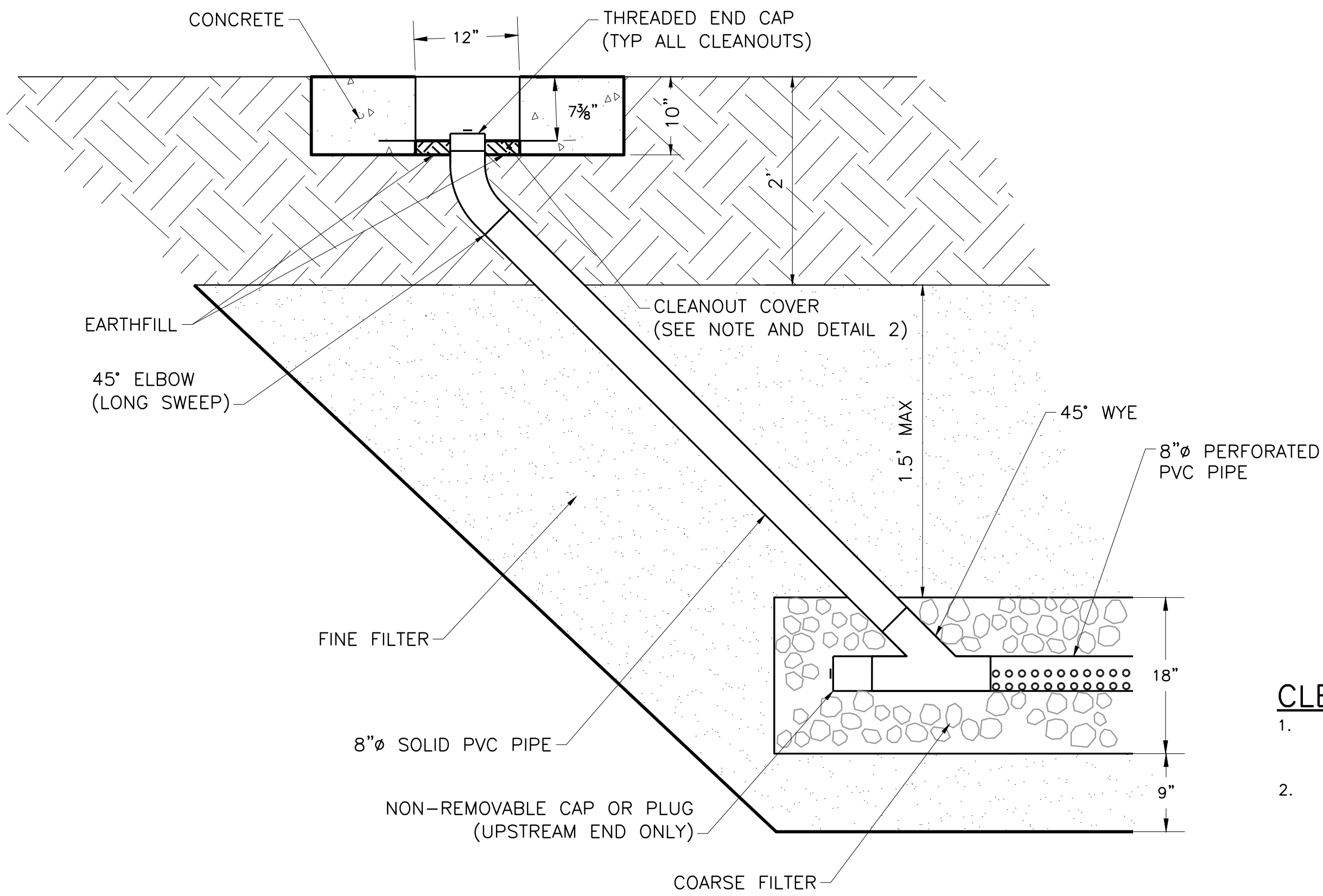
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Filename: N:\WRD\Drawings\CV_DRNS01.dwg
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1
9
EXISTING TOE DRAIN DETAIL



2
—
CLEANOUT COVER
0 1' 2'
SCALE IN FEET



4
12
TOE DRAIN CLEANOUT DETAIL
NOT TO SCALE

EXISTING FILTER GRADATION

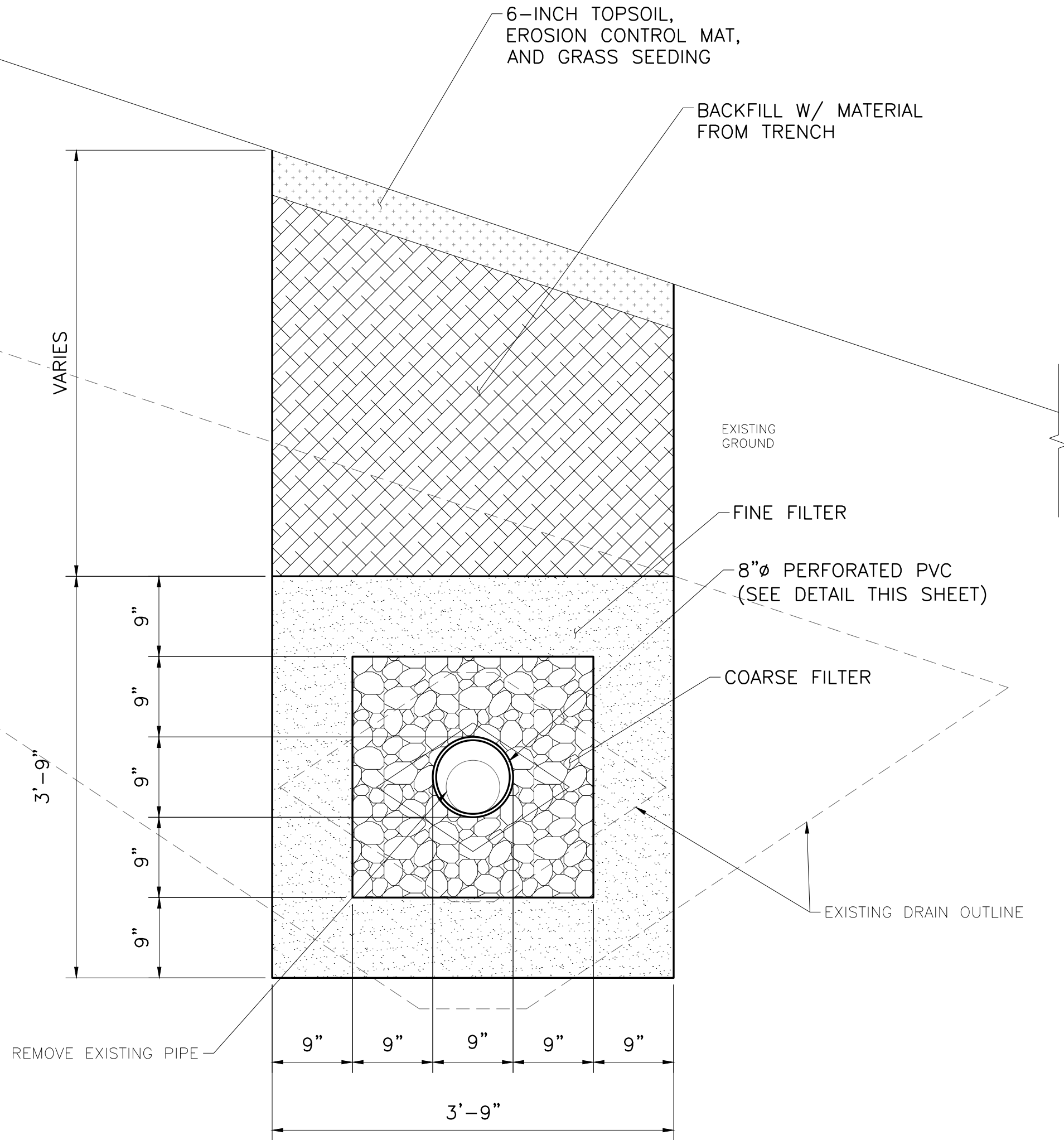
Type I Filter Material	
Sieve Size	Percent Passing (By Weight)
1.5-inch	100
1-inch	95-100
0.5-inch	25-60
No. 4	0-10
No. 8	0-5
No. 200	0-1

Type II Filter Material	
Sieve Size	Percent Passing (By Weight)
3/8-inch	100
No. 4	95-100
No. 8	80-100
No. 16	50-85
No. 30	25-60
No. 50	10-30
No. 100	2-10
No. 200	0-5

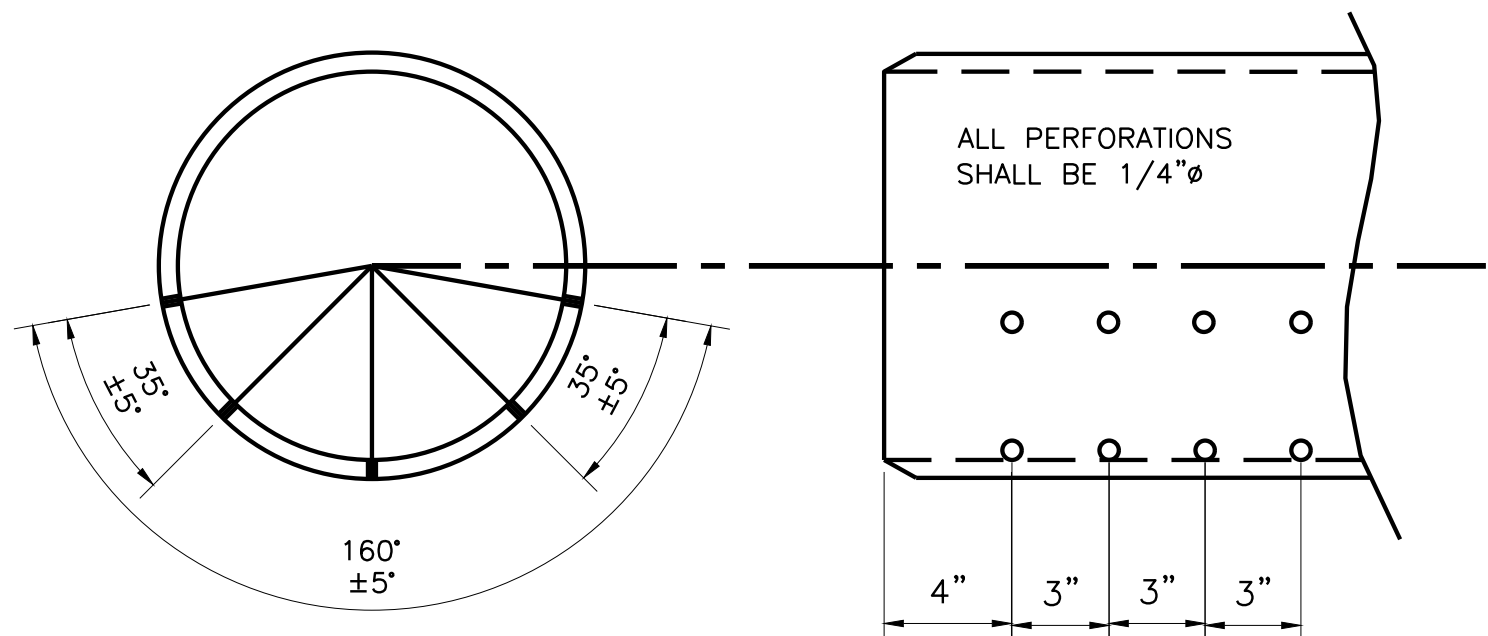
Type III Sand	
Sieve Size (Square Mesh)	Percent Passing (By Weight)
20	0-100
40	0-70
60	0-35
100	0-15
200	0-5

CLEANOUT NOTES:

1. FINISHED GRADE OF CONCRETE AND CLEANOUT COVER SHALL EXTEND NO MORE THAN 0.1' ABOVE THE FINISH GRADE OF EMBANKMENT.
2. CLEANOUT COVERS SHALL BE NEENAH FOUNDRY COMPANY R-1978-B SQUARE WITH BOLTED LID OR EQUIVALENT AS APPROVED BY THE ENGINEER.



3
9
TOE DRAIN REPLACEMENT DETAIL
0 1' 2'
SCALE IN FEET



ALL P.V.C. PLASTIC AND FITTINGS SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 547 AND CONSTRUCTION SPECIFICATION 45.

5
—
PERFORATED PIPE DETAIL
0 .5' 1'
SCALE IN FEET

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TOE DRAIN DETAILS

F&N JOB NO. AU419379

DATE 03/06/20

DESIGNED DGM

DRAWN TTH

REVISED NO/TTH

CHECKED DGM

FILE NAME CV_DRNS01.dwg

VERIFY SCALE 1

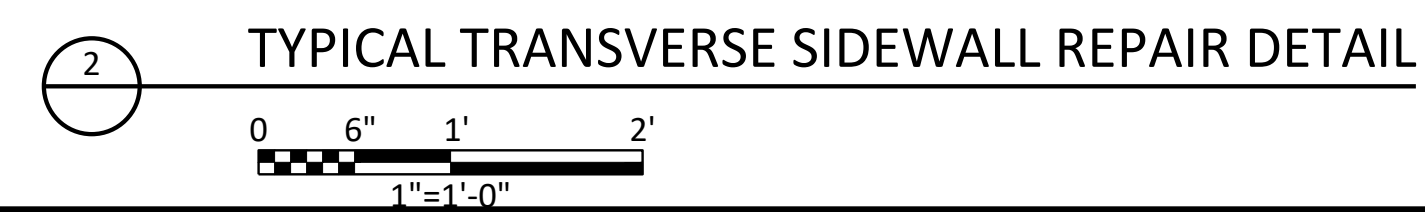
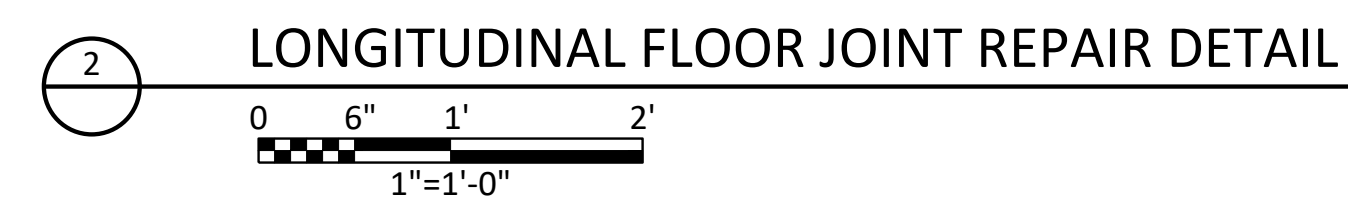
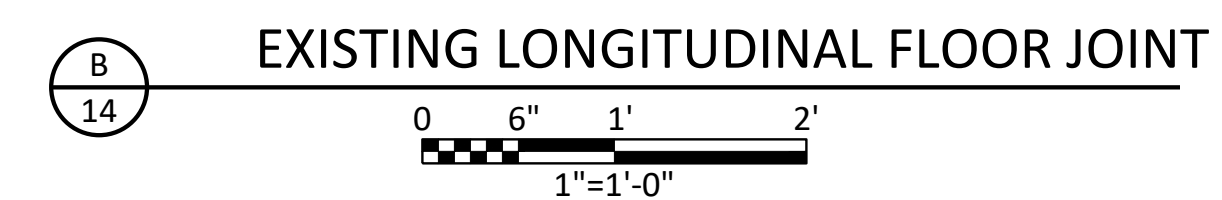
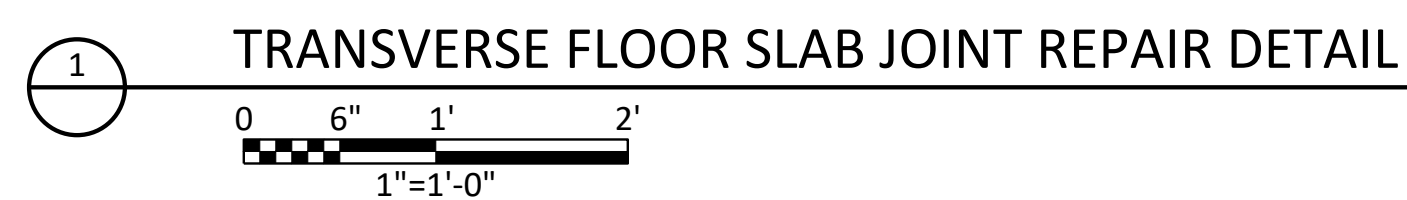
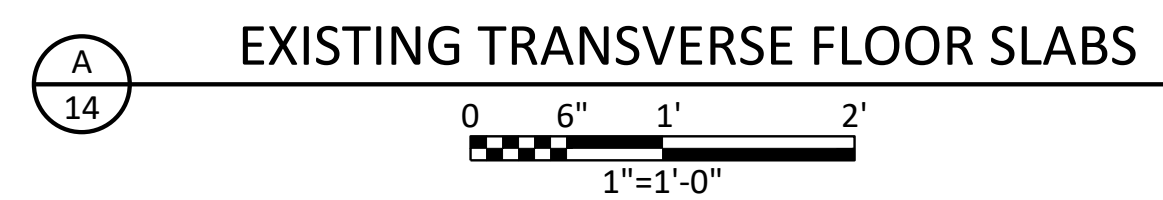
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NO. 1

ISSUE

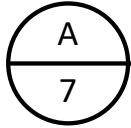
SHEET 15

SEQ.




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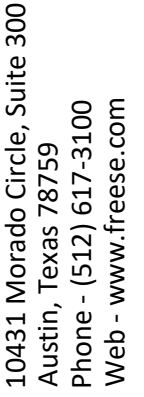
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SPRINKLER REPAIR NOTES:

- 

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Texas Registered Engineering Firm F-2144



SPRINKLER REPAIR

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			03/05/20	ALU113379
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VERIFY SCALE 				Bar is one inch on original drawing. If not one inch on this sheet, scale.
				CHECKED DGM CV: SPRNKC 01.dwg

SHEET 17

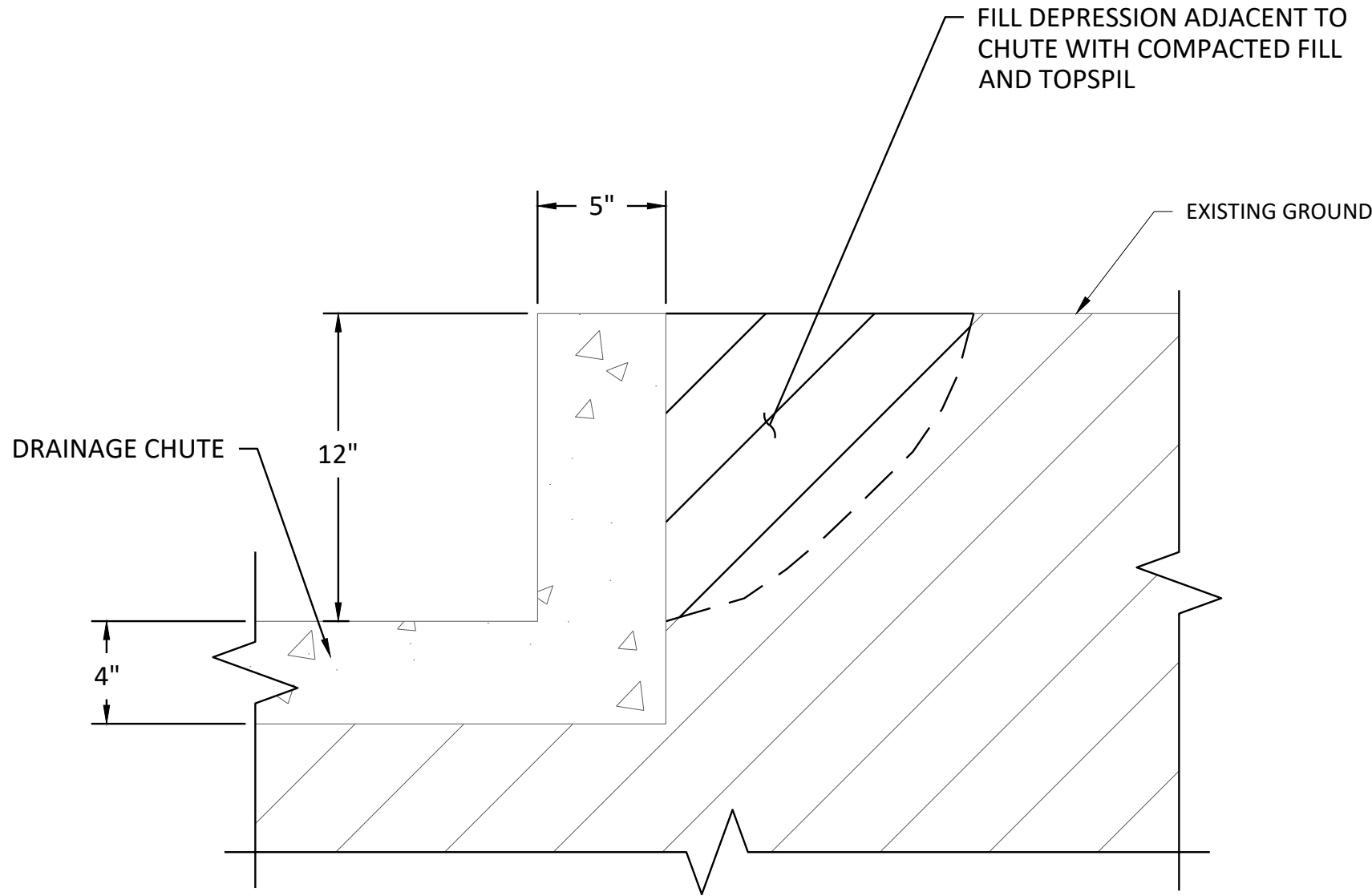
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ACAD Ref: 23.1s (LMS Tech)
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NOTES:

1. REMOVE ALL VEGETATION FROM CONCRETE SURFACES. REMOVE ALL WOODY VEGETATION WITHIN 10-FEET OF THE EDGE OF DITCH, CHUTE, STILLING BASIN, AND ENERGY DISSIPATION CONCRETE.
2. FILL ALL HOLES ADJACENT TO CHUTE ON EACH SIDE OF CHUTE.
3. EXISTING DRAINAGE CHUTES TO REMAIN.
4. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING CHUTE.
5. COMPACT FILL IN 8" LAYERS.
6. TOPSOIL AND RESEED - SEE SPECIFICATIONS.



A DRAINAGE CHUTE REPAIRS
0 .5' 1'
SCALE IN FEET

CLEAR DEBRIS, SEDIMENT AND VEGETATION FROM CONCRETE CHUTE AND ENERGY DISSIPATOR AND REMOVE WOODY VEGETATION WITHIN 10-FEET OF CONCRETE EDGE



C SURFACE DRAINAGE DITCH

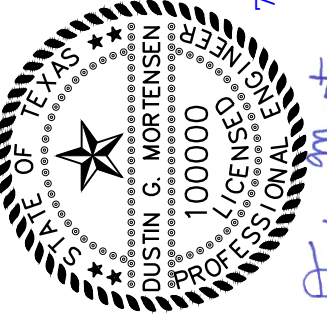


B SURFACE DRAINAGE DITCH



D DRAINAGE CHUTE

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7/30/2020



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DRAINAGE CHUTE REPAIR

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SHEET 18

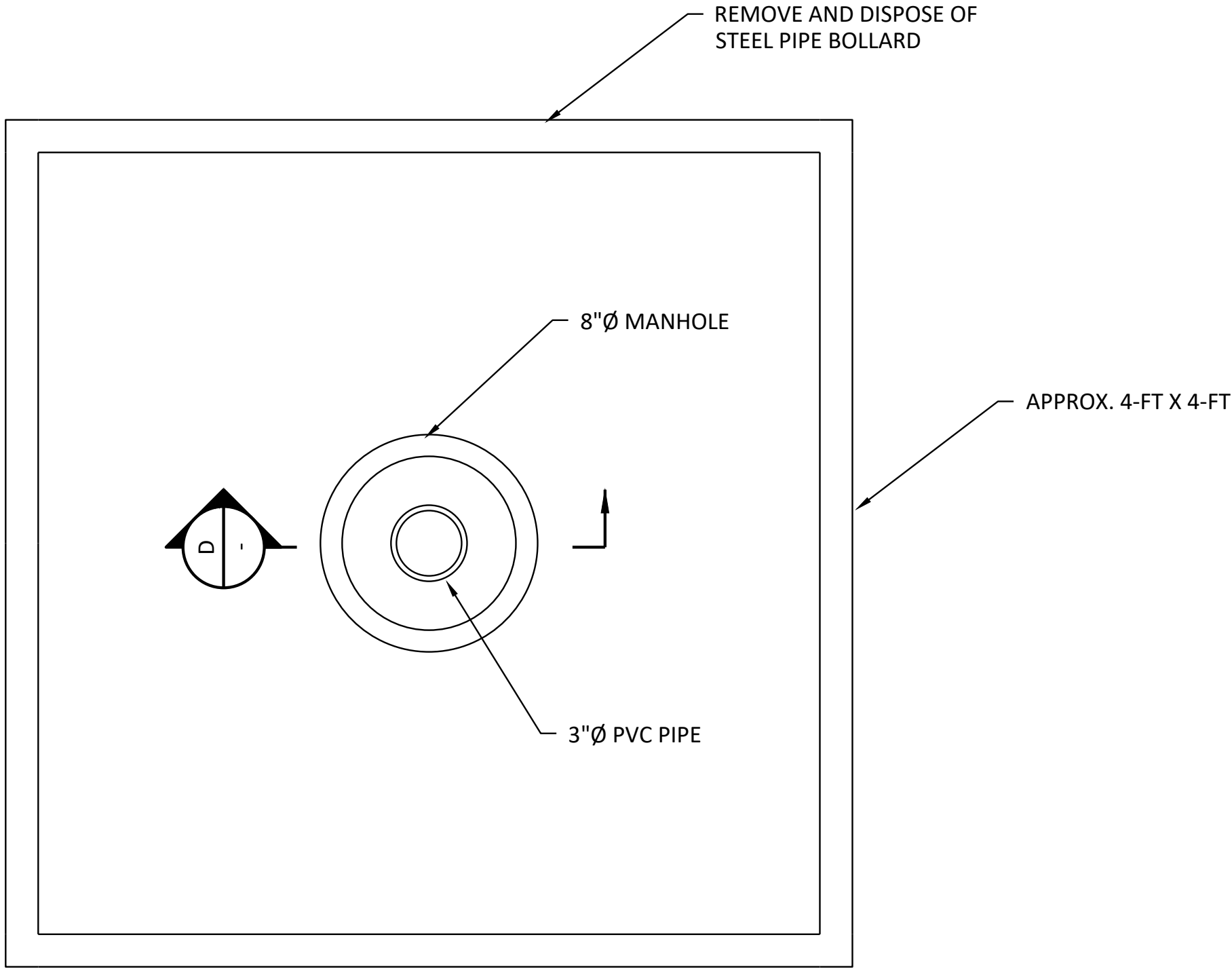
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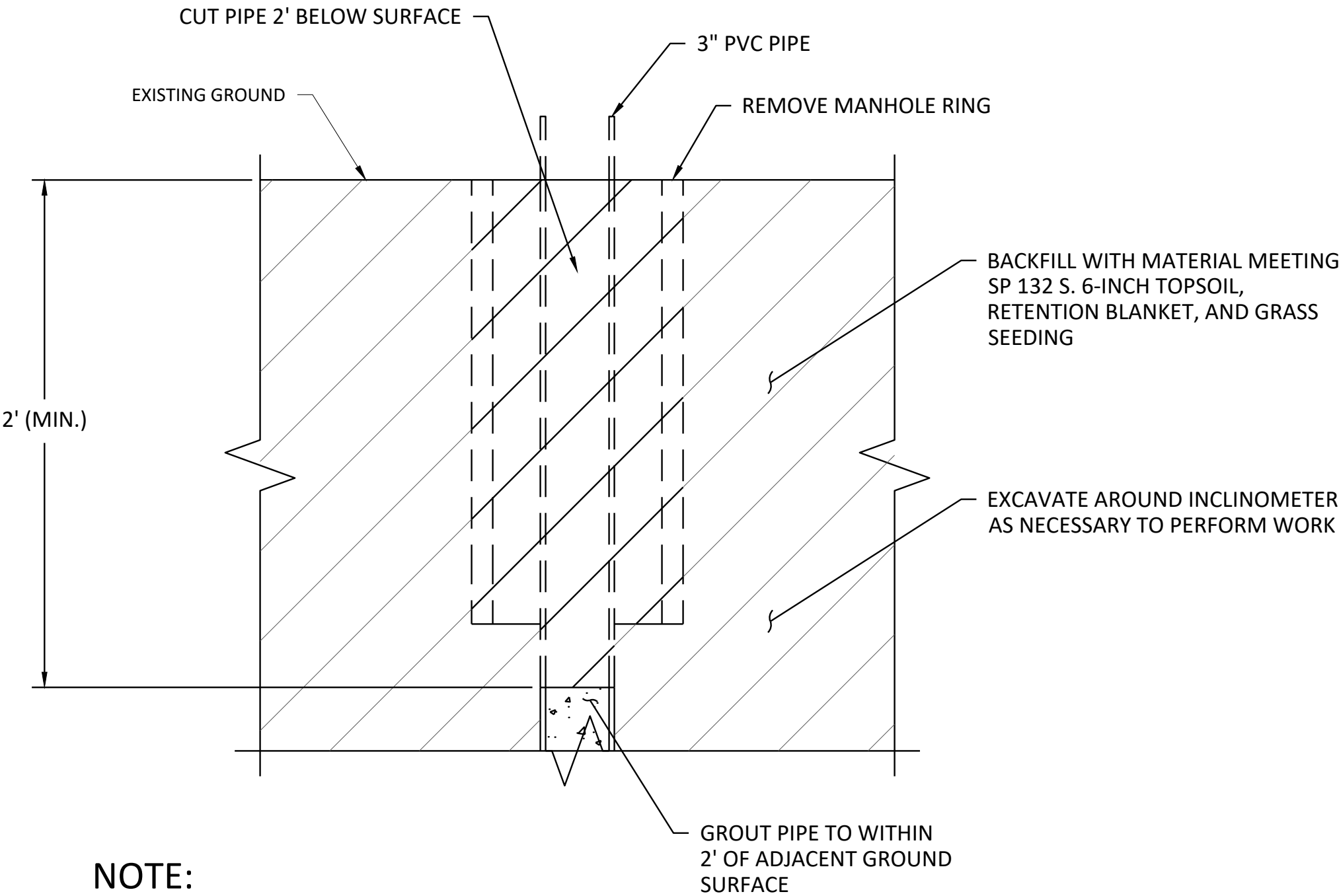
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C STEEL PIPE BOLLARD



A INCLINOMETER PLAN
0 1' 2'
SCALE IN FEET



NOTE:
1. INCLINOMETER IS MAXIMUM 45' DEEP.

B INCLINOMETER SECTION
0 .5' 1'
SCALE IN FEET



D EXISTING INCLINOMETER

Freeze and Nichols, Inc.
Texas Registered Engineering Firm F-1144



7/30/2020

Justin Mortensen



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INCLINOMETER ABANDONMENT

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				DATE	DESIGNED	DRAWN	REVIS	
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VERIFY SCALE		Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.						
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SHEET 19

SEQ.

100% SUBMITTAL

A HOIST VENT CAP



MISSING VENT CAP. REPLACE WITH METAL CAP PAINTED TO MATCH HOIST

100% SUBMITTAL

SHEET		20	
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HOIST VENT CAP



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AUSTIN G. MORTENSEN

PROFESSIONAL ENGINEER

100000

STATE OF TEXAS

7/30/2020
Dustin Mortensen